



STIC Search Report

EIC 1700

STIC Database Tracking Number: 154155

TO: Necholas Ogden
Location: REM 9A31
Art Unit : 1751
May 31, 2005

Case Serial Number: 10/678889

From: Les Henderson
Location: EIC 1700
REM 4B28 / 4A30
Phone: 571-272-2538

Leslie.henderson@uspto.gov

Search Notes



BEST AVAILABLE COPY



STIC Search Results Feedback Form

EIC17000

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader
571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form

- I am an examiner in Workgroup: Example: 1713
- Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

SEARCH REQUEST FORM

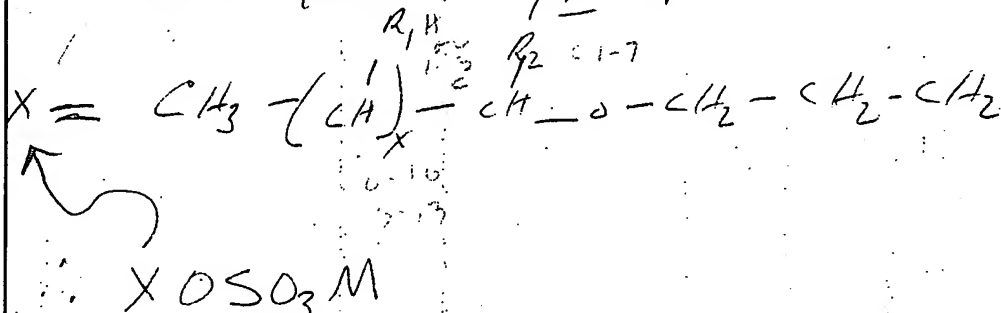
Requestor's Name: Nick Oxiden Serial Number: 101 678,889

Date: 5-28-05 Phone: X21322 Art Unit: 1751
71046 9A31

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Please search the Alkyl Ether Sulfate
Compound of claim 5, specifically the
formula represented by X or



for details see claim 5
use within Detergent or cleaning if necessary

Thanks

STAFF USE ONLY

Date completed: 5/31/05
Searcher: 2 #
Terminal time: _____
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: _____

Search Site
____ STIC
____ CM-1
____ Pre-S
Type of Search
____ N.A. Sequence
____ A.A. Sequence
2 Structure
____ Bibliographic

Vendors
____ IG
7590, 68 STN
____ Dialog
____ APS
____ Geninfo
____ SDC
____ DARC/Questel
____ Other

Access DB# 154155

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Mike Ogden Examiner #: 71046 Date: _____
Art Unit: 1751 Phone Number 30 _____ Serial Number: 10/678,889
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Branched primary alcohol compositions and derivatives

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY

Searcher: 298

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 5/31/05

Date Completed: 5/31/05

Searcher Prep & Review Time: 30

Clerical Prep Time: 30

Online Time: 150

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) 2

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN \$590.68

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

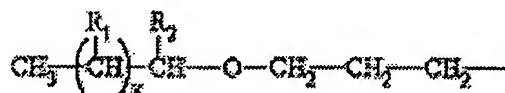
WWW/Internet _____

Other (specify) _____

Art Unit: 1746

5. An alkyl ether sulfate composition comprising an alkyl ether sulfate represented by the formula:

XOSO_3M , wherein M is hydrogen or a cation, and X is represented by the formula



1
0-14

3-13

wherein R_1 represents hydrogen or a hydrocarbyl radical having from 1 to 3 carbon atoms, R_2 represents a hydrocarbyl radical having from ~~1 to 3~~ 7 carbon atoms, x is a number ranging from 0 to 16, wherein the total number of carbon atoms in the alkyl ether sulfate ranges from 9 to 24.

6. The alkyl ether sulfate composition of claim 5 wherein M is hydrogen.

7. The alkyl ether sulfate composition of claim 5 wherein M is a cation effective to provide a water soluble alkyl ether sulfate composition.

8. The alkyl ether sulfate composition of claim 7 wherein M is selected from the group consisting of ammonium, alkanolammonium, monovalent metal cations, and polyvalent metal cations.

9. The alkyl ether sulfate composition of claim 5 wherein R_2 is a hydrocarbyl radical having 1 carbon atom.

10. The alkyl ether sulfate composition of claim 9 wherein R_1 is hydrogen.

11. The alkyl ether sulfate composition of claim 5 wherein x is a number ranging from 3 to 13.

12. The alkyl ether sulfate composition of claim 6 wherein R_2 is a hydrocarbyl radical having 1 carbon atom.

13. The alkyl ether sulfate composition of claim 12 wherein R_1 is hydrogen.

14. The alkyl ether sulfate composition of claim 6 wherein x is a number ranging from 3 to 13.

15. The alkyl ether sulfate composition of claim 7 wherein R_1 is a hydrocarbyl radical having 1 carbon atom.

16. The alkyl ether sulfate composition of claim 15 wherein R_1 is hydrogen.

17. The alkyl ether sulfate composition of claim 7 wherein x is a number ranging from 3 to 13.

claims 18-38 are cancelled

39. A detergent composition comprising the alkyl ether sulfate composition of claim 5.

40. A detergent composition comprising the alkyl ether sulfate composition of claim 6.

41. A detergent composition comprising the alkyl ether sulfate composition of claim 7.

40. A detergent composition comprising the alkyl ether sulfate composition of claim 9.

41. A detergent composition comprising the alkyl ether sulfate composition of claim 11.

claims 42-54 are cancelled

Application/Control Number: 10/678,889

Page 2

Art Unit: 1746

CLMPTO

ACS

10/03/03

claims 1-4 are cancelled

R O - S03

=> d his ful

(FILE 'HOME' ENTERED AT 13:55:35 ON 31 MAY 2005)

FILE 'HCA' ENTERED AT 13:55:43 ON 31 MAY 2005

E US20040067867/PN

L1 1 SEA ABB=ON PLU=ON US20040067867/PN
D ALL
SEL L1 RN

FILE 'REGISTRY' ENTERED AT 13:57:12 ON 31 MAY 2005

L2 14 SEA ABB=ON PLU=ON (112-41-4/BI OR 1120-36-1/BI OR
23377-40-4/BI OR 439293-82-0/BI OR 439293-83-1/BI OR
439293-84-2/BI OR 439293-85-3/BI OR 439293-86-4/BI OR
439293-87-5/BI OR 504-63-2/BI OR 629-73-2/BI OR 7790-94-5
/BI OR 81749-13-5/BI OR 84337-56-4/BI)
D SCAN
D L2 1-14 RN STR

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L3 STR

FILE 'REGISTRY' ENTERED AT 14:23:05 ON 31 MAY 2005

L4 0 SEA SSS SAM L3
D QUE STAT

FILE 'LREGISTRY' ENTERED AT 14:28:01 ON 31 MAY 2005

L5 STR L3

FILE 'REGISTRY' ENTERED AT 14:29:17 ON 31 MAY 2005

L6 22 SEA SSS SAM L5
D SCAN
D QUE STAT

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L7 STR L5

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L8 22 SEA SSS SAM L7
D QUE STAT

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L9 STR L7

FILE 'REGISTRY' ENTERED AT 14:49:06 ON 31 MAY 2005

L10 22 SEA SSS SAM L9

FILE 'LREGISTRY' ENTERED AT 14:50:30 ON 31 MAY 2005

L11 STR L9

FILE 'REGISTRY' ENTERED AT 14:51:54 ON 31 MAY 2005

L12 50 SEA SSS SAM L11

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L13 D QUE STAT
D QUE L3
STR L3

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D QUE STAT L6
D QUE STAT L7
D QUE STAT L9
D QUE STAT L11
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D QUE STAT L11
D QUE STAT L12
D QUE STAT L10
D QUE STAT L8

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D QUE STAT L5
D QUE STAT L7
STR L7

L15

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22 SEA SSS SAM L15

L16

FILE 'LREGISTRY' ENTERED AT 15:30:14 ON 31 MAY 2005

D QUE STAT L16
D QUE STAT L15
D QUE STAT L13
STR L15

L17

FILE 'REGISTRY' ENTERED AT 15:41:07 ON 31 MAY 2005

22 SEA SSS SAM L17
D QUE STAT

L18

FILE 'LREGISTRY' ENTERED AT 15:42:12 ON 31 MAY 2005

STR L17

L19

FILE 'REGISTRY' ENTERED AT 15:42:37 ON 31 MAY 2005

22 SEA SSS SAM L19
1343 SEA SSS FUL L19
SAV L21 OGD889/A
D QUE STAT L15
D QUE STAT L14
0 SEA SUB=L21 SSS SAM L13
D QUE STAT
8 SEA SUB=L21 SSS FUL L13
D SCAN
D QUE STAT L3
D QUE STAT L5
D QUE STAT
D QUE STAT L3

L20

L21

L22

L23

FILE 'LREGISTRY' ENTERED AT 15:51:02 ON 31 MAY 2005

STR L3

L24

FILE 'REGISTRY' ENTERED AT 15:54:07 ON 31 MAY 2005

SAV L23 OGD889A/A

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0 SEA SUB=L21 SSS FUL L24

L25

L26

FILE 'HCAPLUS' ENTERED AT 15:55:11 ON 31 MAY 2005

405 SEA ABB=ON PLU=ON L21

3 SEA ABB=ON PLU=ON L23

D SCAN

402 SEA ABB=ON PLU=ON L27 NOT L28

382861 SEA ABB=ON PLU=ON SOAP? OR SHAMPOO? OR DETERGEN? OR

L27

L28

L29

L30

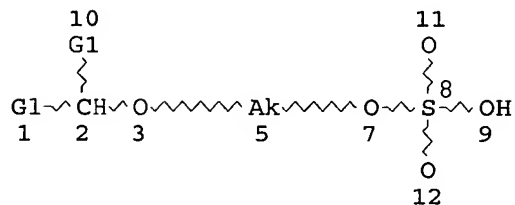
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      CLEAN? OR DISHWASH?(2A) (LIQUID? OR LIQ# OR SOLN# OR
      SOLUT?)
L31      39 SEA ABB=ON PLU=ON L30 AND L29
      D SCAN
L32      1132944 SEA ABB=ON PLU=ON CLEAN? OR LAUND? OR RINS? OR DETERS?
      OR ABSTERS? OR EDULCORAT? OR SANIT? OR HYGIEN? OR
      DISINFECT? OR DECONTAMINA? OR STERILI? OR ABLUT? OR
      ELUTION# OR ELUTRIAT? OR SCRUB? OR SCOUR? OR DEGREAS? OR
      LIXIV? OR WASH?
L33      30 SEA ABB=ON PLU=ON L32 AND L29
L34      51 SEA ABB=ON PLU=ON L31 OR L33
      D SCAN TI
L35      110930 SEA ABB=ON PLU=ON DETERGEN?/SC,SX
L36      32 SEA ABB=ON PLU=ON L35 AND L34
L37      191253 SEA ABB=ON PLU=ON ALIPHAT?/SC,SX
L38      3 SEA ABB=ON PLU=ON L37 AND L34
L39      34 SEA ABB=ON PLU=ON L36 OR L38
      D SCAN TI
L40      0 SEA ABB=ON PLU=ON L1 AND L39
      D QUE STAT L30
      D QUE STAT L32
L41      386526 SEA ABB=ON PLU=ON SURFACT? OR BIOSURFACT? OR HYDROTROP?
      OR DETERG? OR ABSTERG? OR (SURFACE(W)ACTIVE# OR
      WETTING# OR FOAMING#) (A) (AGENT? OR ADDITIVE? OR COMPOUND?
      OR COMPD# OR CMPD#) OR EMULSIFIER? OR DISPERSANT?
L42      42 SEA ABB=ON PLU=ON L41 AND L34
L43      44 SEA ABB=ON PLU=ON L39 OR L42

```

=> d que stat l26

L19 STR



VAR G1=AK/CB

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GGCAT IS SAT AT 5

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X5 C AT 5

GRAPH ATTRIBUTES:

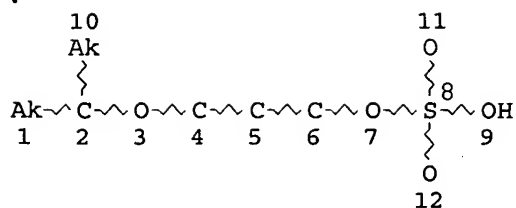
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NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L21 1343 SEA FILE=REGISTRY SSS FUL L19

L24 STR



NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1
 CONNECT IS E1 RC AT 10
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M1-X19 C AT 1
 ECOUNT IS M1-X9 C AT 10

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

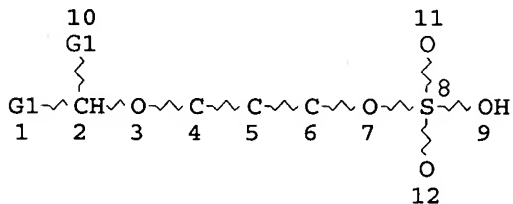
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100.0% PROCESSED 15 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

=> d que stat 128

L13 STR



VAR G1=AK/CB

NODE ATTRIBUTES:

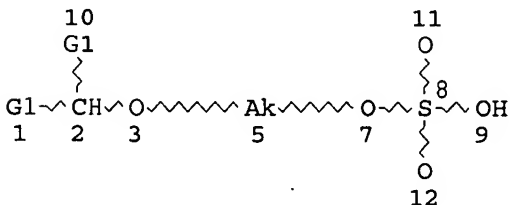
DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L19 STR



VAR G1=AK/CB

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 5

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 5

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X5 C AT 5

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L21 1343 SEA FILE=REGISTRY SSS FUL L19

L23 8 SEA FILE=REGISTRY SUB=L21 SSS FUL L13

L28 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L23

=> d l28 1-3 cbib hitstr hitind

L28 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

1991:72266 Document No. 114:72266 Antistatic and easily coatable silver halide photographic materials containing polyoxyalkylenes. Yatsuyanagi, Naoko (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 02184842 A2 19900719 Heisei, 13 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1989-5382 19890111.

IT 131405-70-4 131405-72-6

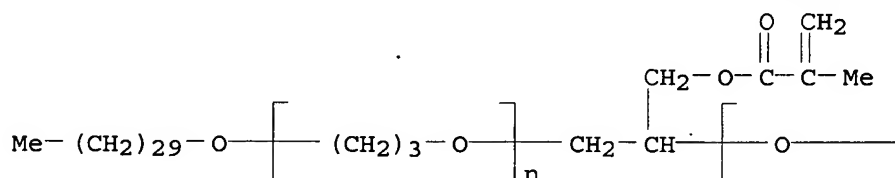
RL: USES (Uses)

(antistatic agent, in silver halide photog. materials)

RN 131405-70-4 HCAPLUS

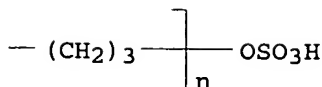
CN Poly(oxy-1,3-propanediyl), ω-(sulfooxy)-ω'-(triacontyloxy)-α,α'-[1-[[[2-methyl-1-oxo-2-propenyl)oxy)methyl]-1,2-ethanediyl]bis-, ammonium salt (9CI) (CA INDEX NAME)

PAGE 1-A



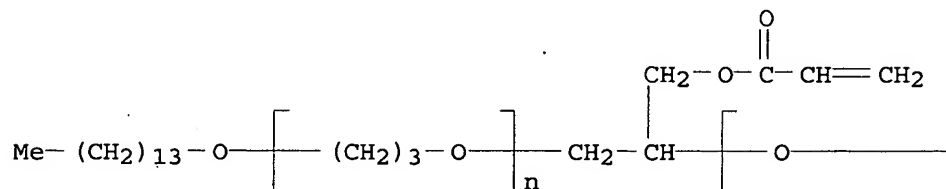
● NH₃

PAGE 1-B



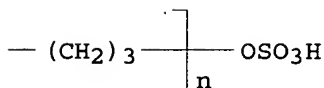
RN 131405-72-6 HCAPLUS
 CN Poly(oxy-1,3-propanediyl), ω -(sulfooxy)- ω' -(tetradecyloxy)- α,α' -[1-[[1-oxo-2-propenyl]oxy]methyl]-1,2-ethanediyl]bis-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



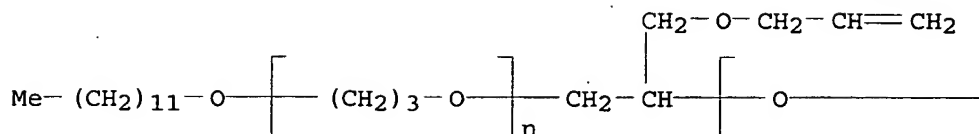
IC ICM G03C001-85
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 131405-67-9 131405-68-0 131405-69-1 131405-70-4
 131405-71-5 131405-72-6 131428-61-0 131428-62-1
 131428-63-2 131428-64-3 131552-40-4 131971-98-7
 RL: USES (Uses)
 (antistatic agent, in silver halide photog. materials)

L28 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
 1991:14838 Document No. 114:14838 Antistatic silver halide photographic materials containing polyoxyalkylenes. Yatsuyanagi, Naoko; Kawasaki, Mikio (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 02139540 A2 19900529 Heisei, 13 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1989-109803 19890429. PRIORITY: JP 1988-209658 19880824.

IT 130977-70-7
 RL: USES (Uses)
 (antistatic agent, in silver halide photog. materials)

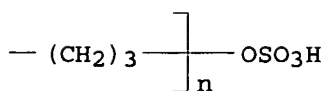
RN 130977-70-7 HCAPLUS
 CN Poly(oxy-1,3-propanediyl), ω -(dodecyloxy)- ω' -(sulfooxy)- α,α' -[1-[(2-propenyloxy)methyl]-1,2-ethanediyl]bis-, potassium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● K

PAGE 1-B

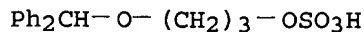


IC ICM G03C001-85
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 130977-67-2 130977-68-3 130977-69-4 **130977-70-7**
 130977-71-8 130977-72-9 130977-73-0 130977-74-1 130977-75-2
 130977-76-3 130977-77-4 130977-78-5 130977-79-6 130977-80-9
 131014-84-1
 RL: USES (Uses)
 (antistatic agent, in silver halide photog. materials)

L28 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
 1977:405608 Document No. 87:5608 Amines and intermediates in their manufacture. Eriksoo, Edgar (Aktiebolag Leo, Swed.). Ger. Offen. DE 2629945 19770127, 42 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1976-2629945 19760702.

IT **62822-70-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with amines)

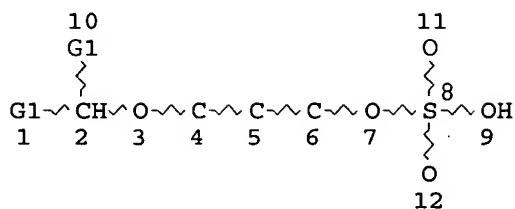
RN 62822-70-2 HCAPLUS
 CN 1-Propanol, 3-(diphenylmethoxy)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

IC C07D223-24
 CC 25-4 (Noncondensed Aromatic Compounds)
 Section cross-reference(s): 21, 24, 26, 27, 28
 IT 62822-57-5P 62822-58-6P **62822-70-2P** 62992-74-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with amines)

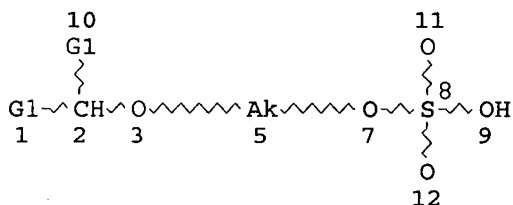
=> => d que stat 143
L13 STR



VAR G1=AK/CB
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE
L19 STR



VAR G1=AK/CB
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 5
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 5
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1-X5 C AT 5

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

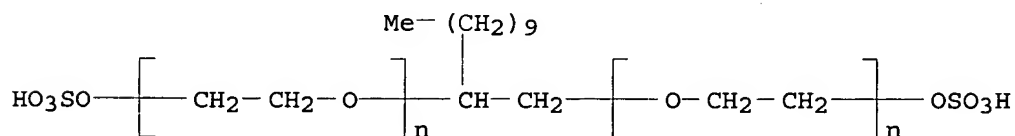
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L23 8 SEA FILE=REGISTRY SUB=L21 SSS FUL L13
L27 405 SEA FILE=HCAPLUS ABB=ON PLU=ON L21
L28 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L23
L29 402 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 NOT L28
L30 382861 SEA FILE=HCAPLUS ABB=ON PLU=ON SOAP? OR SHAMPOO? OR
DETERGEN? OR CLEAN? OR DISHWASH? (2A) (LIQUID? OR LIQ# OR
SOLN# OR SOLUT?)
L31 39 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 AND L29
L32 1132944 SEA FILE=HCAPLUS ABB=ON PLU=ON CLEAN? OR LAUND? OR
RINS? OR DETERS? OR ABSTERS? OR EDULCORAT? OR SANIT? OR
HYGIEN? OR DISINFECT? OR DECONTAMINA? OR STERILI? OR
ABLUT? OR ELUTION# OR ELUTRIAT? OR SCRUB? OR SCOUR? OR
DEGREAS? OR LIXIV? OR WASH?

L33 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 AND L29
 L34 51 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 OR L33
 L35 110930 SEA FILE=HCAPLUS ABB=ON PLU=ON DETERGEN?/SC,SX
 L36 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 AND L34
 L37 191253 SEA FILE=HCAPLUS ABB=ON PLU=ON ALIPHAT?/SC,SX
 L38 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L34
 L39 34 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L38
 L41 386526 SEA FILE=HCAPLUS ABB=ON PLU=ON SURFACT? OR BIOSURFACT?
 OR HYDROTROP? OR DETERG? OR ABSTERG? OR (SURFACE(W)ACTIVE
 # OR WETTING# OR FOAMING#) (A) (AGENT? OR ADDITIVE? OR
 COMPOUND? OR COMPD# OR CMPD#) OR EMULSIFIER? OR DISPERSAN
 T?
 L42 42 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 AND L34
 L43 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L39 OR L42

=> d l43 1-44 cbib hitstr hitind

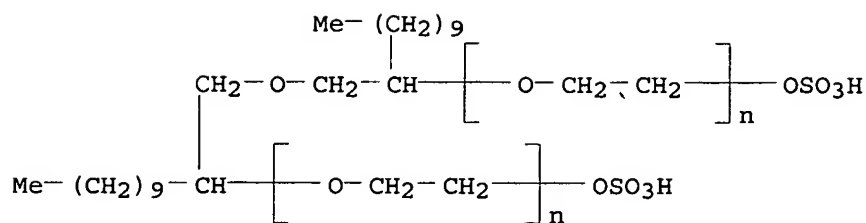
L43 ANSWER 1 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 2002:219792 Document No. 136:264924 Anionic **surfactants** and
 their uses for **detergents, emulsifiers**, etc..
 Miura, Shuji; Matsuoka, Masahiro; Nishida, Yukihiro; Kawaguchi,
 Yukiharu; Kawasaki, Yumi (Sanyo Chemical Industries Ltd., Japan).
 Jpn. Kokai Tokkyo Koho JP 2002080888 A2 20020322, 13 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-23385 20010131.
 PRIORITY: JP 2000-200555 20000703.

IT 292149-73-6P 404826-09-1P 404892-55-3P
 RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical
 or engineered material use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (anionic **surfactants** and their uses for
detergents and emulsifiers)
 RN 292149-73-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -(1-decyl-1,2-
 ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX
 NAME)



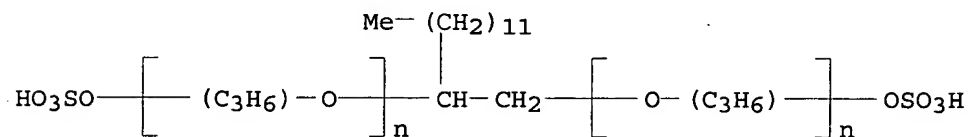
● 2 Na

RN 404826-09-1 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -[oxybis(1-decyl-2,1-
 ethanediyl)]bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX
 NAME)



● 2 Na

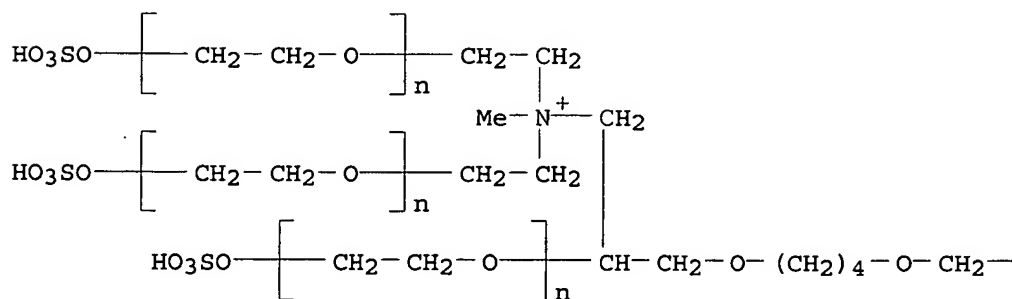
RN 404892-55-3 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)], α,α' -(1-dodecyl-1,2-ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



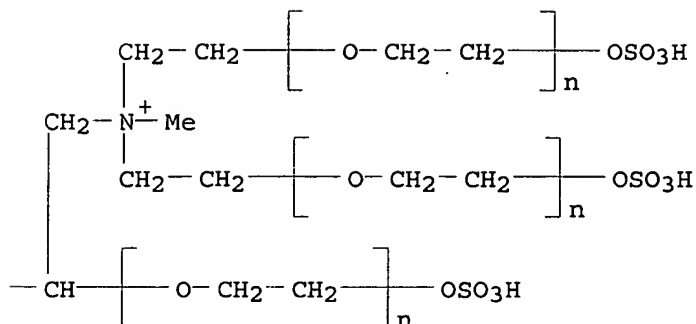
● 2 Na

IC ICM C11D001-06
 ICS A61K007-075; B01F017-42; C11D001-28; C11D001-34
 CC 46-3 (Surface Active Agents and Detergents)
 Section cross-reference(s): 62
 ST anionic **surfactant detergent emulsifier**
 ; ethoxylated dodecanediol sulfonate sodium **laundry detergent**
 IT **Detergents**
 Dispersing agents
 Emulsifying agents
 Penetrating agents
Shampoos
Wetting agents
 (anionic **surfactants** and their uses for **detergents** and **emulsifiers**)
 IT **Surfactants**
 (anionic; anionic **surfactants** and their uses for **detergents** and **emulsifiers**)
 IT Polyoxyalkylenes, uses
 RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (diol derivs., sulfonate and carboxylate salts; anionic **surfactants** and their uses for **detergents** and **emulsifiers**)
 IT **Detergents**
 (laundry; anionic **surfactants** and their uses for **detergents** and **emulsifiers**)

PAGE 1-A



PAGE 1-B



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

- IC ICM C08G065-32
ICS C08G065-26; C11D003-37
- CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 35
- ST ethoxylated polyamine zwitterionic prepn **detergent**
additive; alkoxylation sulfation quaternization polyamine
- IT Quaternary ammonium compounds, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(alkoxylated; preparation of zwitterionic ethoxylated polyamines as **detergent** additives)
- IT Amines, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(ethoxylated; preparation of zwitterionic ethoxylated polyamines as **detergent** additives)
- IT Amines, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyamines, nonpolymeric; preparation of zwitterionic ethoxylated polyamines as **detergent** additives)
- IT 325169-38-8P 325169-39-9P 325169-41-3P 325169-44-6P
325169-45-7P 325169-46-8DP, ethoxylated 325169-47-9P
325169-48-0P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of zwitterionic ethoxylated polyamines as **detergent** additives)
- IT 325169-43-5P 325169-46-8DP, quaternized salt of the sulfated ethoxylated derivative 325169-50-4P 325169-52-6P
325169-54-8P 325169-56-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of zwitterionic ethoxylated polyamines as

detergent additives)

IT 77-78-1, Dimethyl sulfate 106-89-8, Epichlorohydrin, reactions
7300-34-7, 4,9-Dioxadodecane-1,12-diamine 7790-94-5,
Chlorosulfonic acid

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of zwitterionic ethoxylated polyamines as
detergent additives)

L43 ANSWER 3 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

2001:101050 Document No. 134:164625 Recording method comprising
printing recording medium with two liquid components. Kubota,
Kazuhide; Oyanagi, Takashi; Miyabayashi, Toshiyuki (Seiko Epson
Corp., Japan). PCT Int. Appl. WO 2001008895 A1 20010208, 137 pp.
DESIGNATED STATES: W: JP, US; RW: AT, BE, CH, CY, DE, DK, ES, FI,
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (Japanese). CODEN: PIXXD2.
APPLICATION: WO 2000-JP5150 20000731. PRIORITY: JP 1999-217296
19990730; JP 2000-7135 20000114; JP 2000-211821 20000712; JP
2000-222966 20000724; JP 2000-224002 20000725; JP 2000-224141
20000725.

IT 324575-83-9P 324575-84-0P 324575-85-1P
324575-86-2P 324575-87-3P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
(Technical or engineered material use); PREP (Preparation); USES
(Uses)

(pigment dispersion; preparation and properties of printing ink composition
with two liquid components)

RN 324575-83-9 HCAPLUS

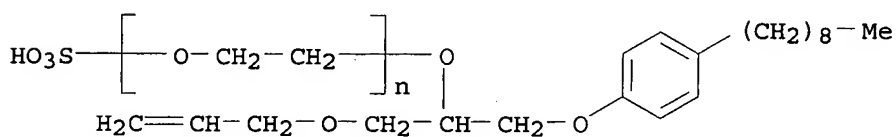
CN 2-Propenenitrile, polymer with α -sulfo- ω -[1-[(4-
nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-
ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 136931-77-6

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI PMS



CM 2

CRN 107-13-1

CMF C3 H3 N



RN 324575-84-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 2-phenoxyethyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

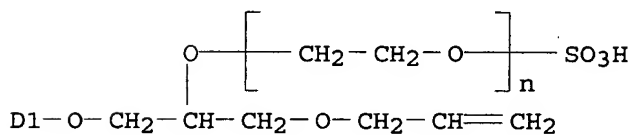
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS



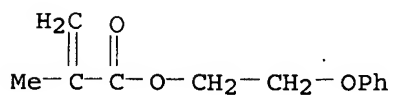
D1- (CH₂)₈-Me



CM 2

CRN 10595-06-9

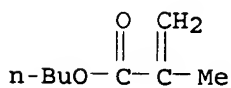
CMF C12 H14 O3



CM 3

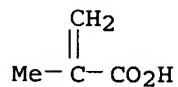
CRN 97-88-1

CMF C8 H14 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



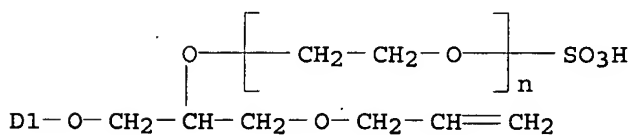
RN 324575-85-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, octahydro-4,7-methano-1H-inden-5-yl 2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

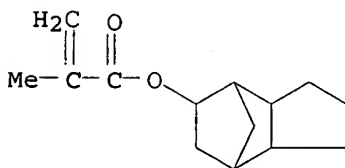


D1- (CH₂)₈-Me



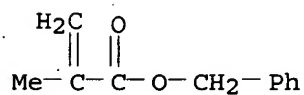
CM 2

CRN 34759-34-7
CMF C14 H20 O2



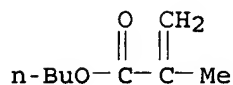
CM 3

CRN 2495-37-6
CMF C11 H12 O2



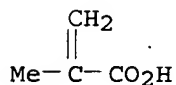
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

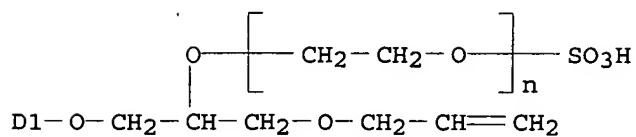
CRN 79-41-4
CMF C4 H6 O2



RN 324575-86-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
phenylmethyl 2-methyl-2-propenoate, 2-propenenitrile and
α-sulfo-ω-[1-[(nonylphenoxy)methyl]-2-(2-
propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft
(9CI) (CA INDEX NAME)

CM 1

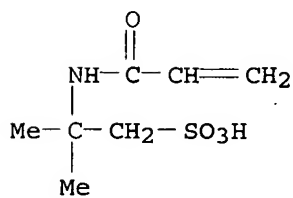
CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

D1- (CH₂)₈-Me

CM 2

CRN 15214-89-8

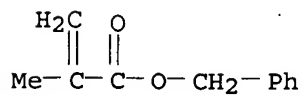
CMF C7 H13 N O4 S



CM 3

CRN 2495-37-6

CMF C11 H12 O2



CM 4

CRN 107-13-1

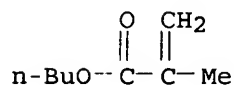
CMF C3 H3 N



CM 5

CRN 97-88-1

CMF C8 H14 O2



RN 324575-87-3 HCAPLUS

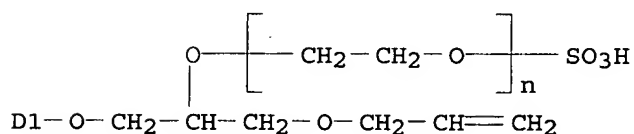
CN 2-Butenedioic acid (2E)-, dibutyl ester, polymer with
 2-propenenitrile and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-
 2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt,
 graft (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS

D1-(CH₂)₈-Me

CM 2

CRN 107-13-1

CMF C3 H3 N

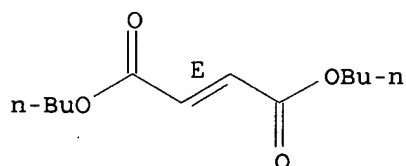


CM 3

CRN 105-75-9

CMF C12 H20 O4

Double bond geometry as shown.



- IC B41M005-00; B41J003-04; C09D011-00
 CC 42-12 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 73
 IT Dispersing agents
 Dispersion (of materials)
 Dyes
 Emulsifying agents
 Emulsions
 Light stabilizers
 Pigments, nonbiological
Surfactants
 UV stabilizers
 (ink containing; preparation and properties of printing ink composition with two liquid components)
 IT 25155-30-0, Sodium dodecylbenzenesulfonate
 RL: NUU (Other use, unclassified); USES (Uses)
 (emulsifier, ink containing; preparation and properties of printing ink composition with two liquid components)
 IT 151-21-3, Sodium laurylsulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (emulsifier; preparation and properties of printing ink composition with two liquid components)
 IT 324575-83-9P 324575-84-0P 324575-85-1P
 324575-86-2P 324575-87-3P 324737-82-8P,
 Acrylonitrile-ethylene oxide graft copolymer, ammonium sulfate
 324737-84-0P, Butyl methacrylate-ethylene oxide-methacrylic acid-phenoxyethyl methacrylate graft copolymer ammonium sulfate
 324737-86-2P, Benzyl methacrylate-butyl methacrylate-dicyclopentanyl dimethacrylate-ethylene oxide-methacrylic acid graft copolymer ammonium sulfate 324737-88-4P, 2-Acrylamido-2-methylpropanesulfonic acid-acrylonitrile-benzyl methacrylate-butyl methacrylate-ethylene oxide graft copolymer ammonium sulfate
 324737-90-8P, Acrylonitrile-dibutyl fumarate-ethylene oxide graft copolymer ammonium sulfate
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (pigment dispersion; preparation and properties of printing ink composition with two liquid components)

L43 ANSWER 4 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 2001:64074 Document No. 134:131977 Zwitterionic polyamines use as detergent additives and their preparation. Boeckh, Dieter; Borzyk, Oliver; Ehle, Michael; Norenberg, Ralf; Gosselink, Eugene P.; Dupont, Jeffrey S.; Rohrbaugh, Robert H.; Price, Kenneth N.; Deinhammer, Randall S. (BASF Aktiengesellschaft, Germany). PCT Int. Appl. WO 2001005874 A1 20010125, 24 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU,

CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW; RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE.

(English). CODEN: PIXXD2. APPLICATION: WO 2000-EP6296 20000705.

PRIORITY: US 1999-PV144165 19990716.

IT 321850-95-7P

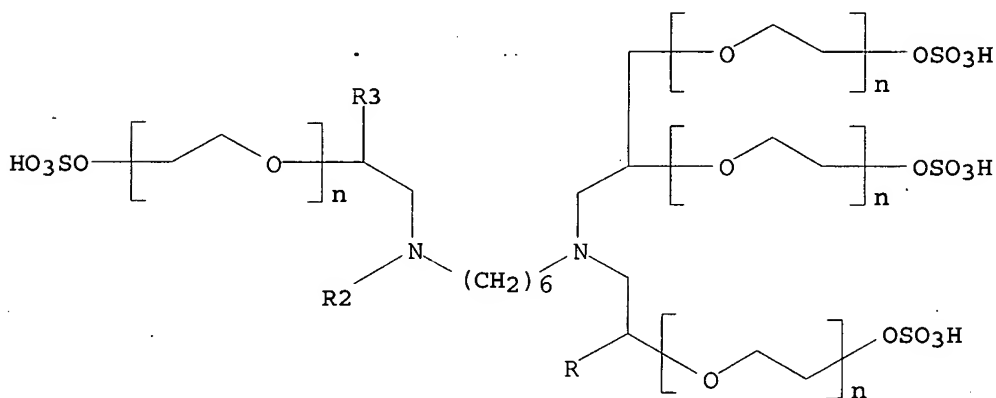
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(zwitterionic polyamines use as **detergent** additives and their preparation)

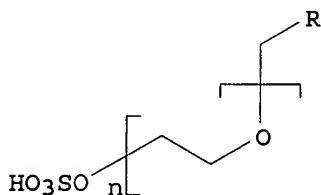
RN 321850-95-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -(sulfooxy)-, ether with 3,3',3'',3'''-[[(2,3-dihydroxypropyl)imino]bis(6,1-hexanediyl)nitrilo]tetrakis[1,2-propanediol] (10:1), decasodium salt (9CI) (CA INDEX NAME)

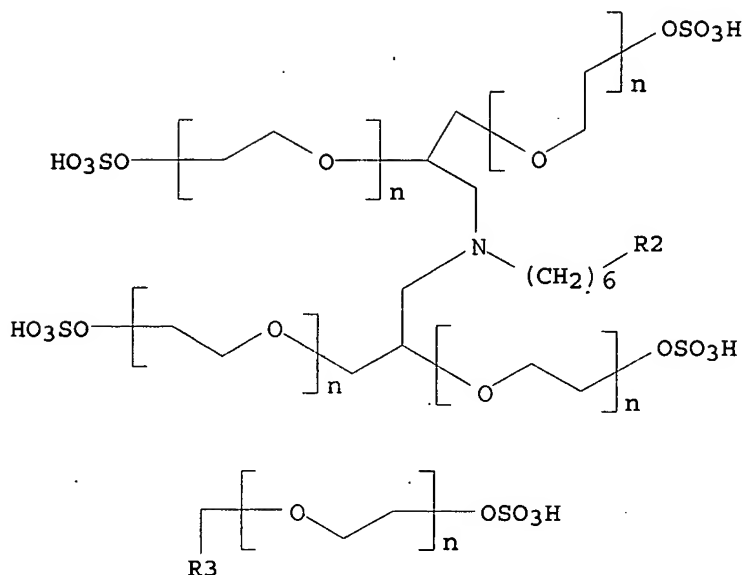
PAGE 1-A



PAGE 2-A



PAGE 3-A



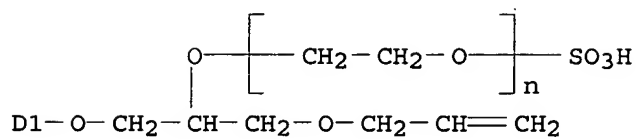
PAGE 4-A

● 10 Na

- IC ICM C08G073-02
ICS C11D003-37
- CC 35-8 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 46
- ST polyamine zwitterionic prepn **detergent** additive;
alkoxylation sulfation quaternization polyamine
- IT Amines, preparation
Quaternary ammonium compounds, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(alkoxylated; zwitterionic polyamines use as **detergent** additives and their preparation)
- IT Amines, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyamines, nonpolymeric, polyethylene-; zwitterionic polyamines use as **detergent** additives and their preparation)
- IT **Detergents**
(zwitterionic polyamines use as **detergent** additives and their preparation)
- IT 70914-37-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(zwitterionic polyamines use as **detergent** additives and their preparation)
- IT 321850-89-9P 321850-91-3P 321850-93-5P 321850-95-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(zwitterionic polyamines use as **detergent** additives and

- their preparation)
- IT 77-78-1, Dimethyl sulfate 143-23-7 7209-38-3,
1,4-Piperazinedipropanamine 7790-94-5, Chlorosulfonic acid
26650-11-3 321850-94-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(zwitterionic polyamines use as **detergent** additives and
their preparation)
- L43 ANSWER 5 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
- 2001:64072 Document No. 134:131975 Zwitterionic polyether-polyamines
use as **detergent** additives and their preparation. Boeckh,
Dieter; Borzyk, Oliver; Ehle, Michael; Norenberg, Ralf; Gosselink,
Eugene P.; Dupont, Jeffrey S.; Rohrbaugh, Robert H.; Price, Kenneth
N.; Deinhammer, Randall S. (BASF Aktiengesellschaft, Germany). PCT
Int. Appl. WO 2001005872 A1 20010125, 30 pp. DESIGNATED STATES: W:
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, VJ, VN, YU, ZA, ZW; RW: AT,
BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE.
(English). CODEN: PIXXD2. APPLICATION: WO 2000-EP6295 20000705.
PRIORITY: US 1999-PV144083 19990716.
- IT 321882-54-6P
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(preparation of zwitterionic polyether-polyamines use as
detergent additives)
- RN 321882-54-6 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha'', \alpha'''$, .alp
ha., α'''' , α''''' , α'''''' , α''''''' - [1,4-
butanediylbis(oxy-3,1-propanediyl nitrilodi-3,1,2-
propanetriyl)] octakis[ω -(sulfooxy)-, octasodium salt (9CI)
(CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- IC ICM C08G065-325
ICS C08G065-322
- CC 35-8 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 46
- ST polyoxyalkylene polyamine zwitterionic prepn **detergent**
additive; alkoxylation sulfation quaternization polyamine
- IT Amines, preparation
Quaternary ammonium compounds, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(alkoxylated; preparation of zwitterionic polyether-polyamines use as
detergent additives)
- IT Polyoxyalkylenes, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(amino-terminated; preparation of zwitterionic polyether-polyamines
use as **detergent** additives)
- IT Amines, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(polyamines, nonpolymeric, polyethylene-; preparation of zwitterionic
polyether-polyamines use as **detergent** additives)
- IT **Detergents**
(preparation of zwitterionic polyether-polyamines use as

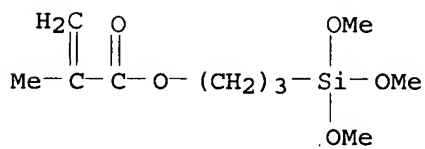
detergent additives)
IT 321882-46-6P 321882-49-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of zwitterionic polyether-polyamines use as
detergent additives)
IT 106392-12-5DP, Ethylene oxide-propylene oxide block copolymer,
diamino-terminated, ethoxylated, quaternized and sulfated
106392-12-5DP, Ethylene oxide-propylene oxide block copolymer,
reaction products with 1,12-Diamino-4,9-dioxadodecane, and sulfated
321882-48-8P 321882-51-3P 321882-52-4P 321882-54-6P
321906-34-7P 321917-41-3P 342424-49-1DP, quaternized
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(preparation of zwitterionic polyether-polyamines use as
detergent additives)
IT 77-78-1, Dimethyl sulfate 4246-51-9 7300-34-7 7790-94-5,
Chlorosulfonic acid 9046-10-0, α,ω -
Diaminopolypropylene glycol 39423-51-3 321882-53-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of zwitterionic polyether-polyamines use as
detergent additives)
L43 ANSWER 6 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
2000:540857 Document No. 133:152042 Surface treatment process for
Zn-plated steel panels. Ishizuka, Kiyokazu; Hayashi, Kimitaka;
Kikuchi, Ikuo; Nakagawa, Nobuo; Sakiyama, Yoshihiro; Serizawa,
Hiroshi (Nippon Steel Corp., Japan; Nippon Carbide Industries Co.,
Inc.). Jpn. Kokai Tokkyo Koho JP 2000218230 A2 20000808, 16 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-21258 19990129.
IT 287388-12-9P 287388-13-0P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
(Technical or engineered material use); PREP (Preparation); USES
(Uses)
(aqueous coatings containing acrylic polymer particles and SiO₂ for
galvanized steel)
RN 287388-12-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl
2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-propenoic
acid, α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-
propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and
3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX
NAME)
CM 1
CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

D1- (CH₂)₈-Me

CM 2

CRN 2530-85-0

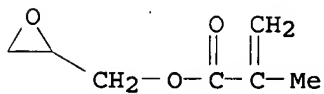
CMF C10 H20 O5 Si



CM 3

CRN 106-91-2

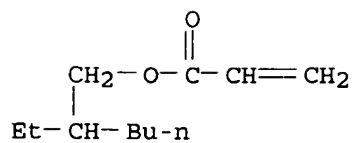
CMF C7 H10 O3



CM 4

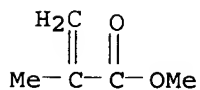
CRN 103-11-7

CMF C11 H20 O2



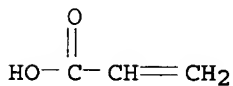
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

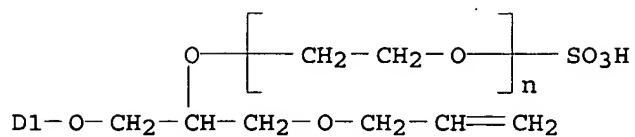
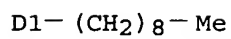
CRN 79-10-7
CMF C3 H4 O2



RN 287388-13-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl
2-propenoate, α -hydro- ω -[(2-methyl-1-oxo-2-
propenyl)oxy]poly[oxy(1-oxo-1,6-hexanediyl)], oxiranylmethyl
2-methyl-2-propenoate, α -sulfo- ω -[1-
[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-
ethanediyl) ammonium salt and 3-(trimethoxysilyl)propyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

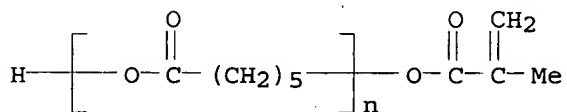


CM 2

CRN 112727-51-2

CMF (C6 H10 O2)_n C4 H6 O2

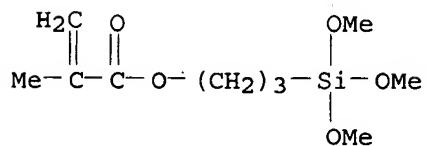
CCI PMS



CM 3

CRN 2530-85-0

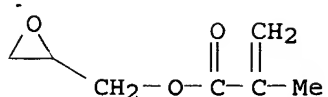
CMF C10 H20 O5 Si



CM 4

CRN 106-91-2

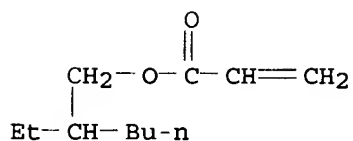
CMF C7 H10 O3



CM 5

CRN 103-11-7

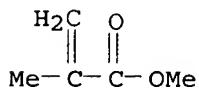
CMF C11 H20 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



IC ICM B05D007-14
 ICS B05D007-24; C09D123-00; C09D133-04; C09D175-04; C23C022-05;
 C23C022-50; C23C022-53
 CC 42-7 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 55
 IT **287388-12-9P 287388-13-0P 287388-14-1P**
 287388-15-2P 287388-16-3P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
 (Technical or engineered material use); PREP (Preparation); USES
 (Uses)
 (aqueous coatings containing acrylic polymer particles and SiO2 for
 galvanized steel)

L43 ANSWER 7 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 2000:88383 Document No. 132:138742 Latexes for dyeability of cellulose
 fibers with disperse dyes. Himeta, Yukari; Otsuka, Masahiko (Asahi
 Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 2000038492 A2 20000208, 12 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1998-209904 19980724.
 IT **256638-01-4P 256638-03-6P 256638-05-8P**
256638-07-0P 256638-09-2P 256638-11-6P
256638-13-8P 256638-15-0P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PRP (Properties); PREP (Preparation); USES (Uses)
 (preparation of latexes for improving disperse dyeability of cellulose
 fibers with good spinnability and dry-cleaning
 fastness)
 RN 256638-01-4 HCAPLUS

GN Butanedioic acid, methylene-, polymer with ethenylbenzene,
 (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)
 bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate,
 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-
 (2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt,
 ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-00-3

CMF (C27 H32 O6 . C8 H8 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . (C2 H4
 O)n C21 H34 O6 S . H3 N)x

CCI PMS

CM 2

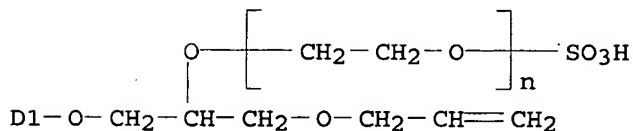
CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

CCI IDS, PMS



D1- (CH₂)₈-Me

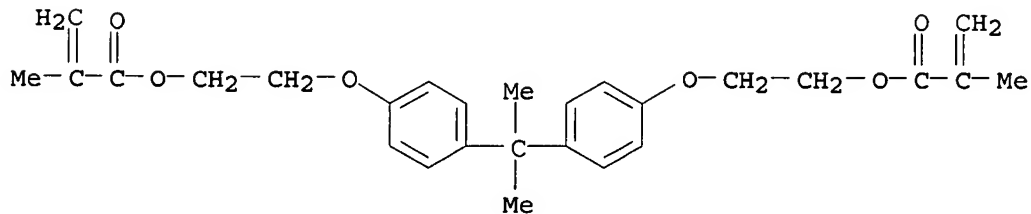


● NH₃

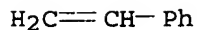
CM 3

CRN 24448-20-2

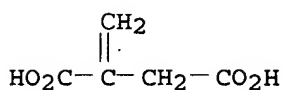
CMF C27 H32 O6



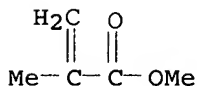
CM 4
 CRN 100-42-5
 CMF C8 H8



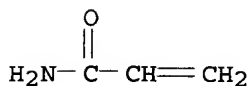
CM 5
 CRN 97-65-4
 CMF C5 H6 O4



CM 6
 CRN 80-62-6
 CMF C5 H8 O2



CM 7
 CRN 79-06-1
 CMF C3 H5 N O



RN 256638-03-6 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate, 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

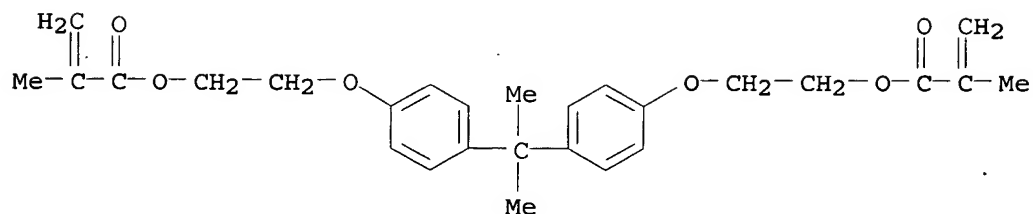
CRN 256638-02-5
 CMF (C27 H32 O6 . C11 H12 O2 . C8 H8 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . (C2 H4 O)n C21 H34 O6 S . H3 N)x
 CCI PMS

CRN 113405-85-9
CMF (C2 H4 O)n C21 H34 O6 S . H3 N
CCI IDS, PMS

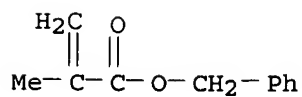

$$\begin{array}{c} \text{O} - \left[\text{CH}_2 - \text{CH}_2 - \text{O} \right]_n - \text{SO}_3\text{H} \\ | \\ \text{D1-O-CH}_2 - \text{CH} - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{CH} = \text{CH}_2 \end{array}$$

● NH_3

CRN 24448-20-2
CMF C27 H32 O6

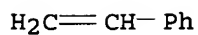


CRN 2495-37-6
CMF C11 H12 O2

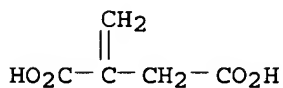


571-272-2538

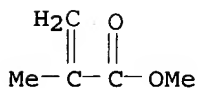
CRN 100-42-5
CMF C8 H8



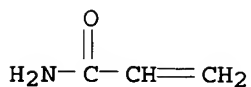
CM 6
CRN 97-65-4
CMF C5 H6 O4



CM 7
CRN 80-62-6
CMF C5 H8 O2



CM 8
CRN 79-06-1
CMF C3 H5 N O



RN 256638-05-8 HCAPLUS
CN Butanedioic acid, methylene-, polymer with ethenylbenzene,
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)
bis(2-methyl-2-propenoate), phenylmethyl 2-methyl-2-propenoate,
2-propenamide and- α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-
(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt,
ammonium salt (9CI) (CA INDEX NAME)

CM 1

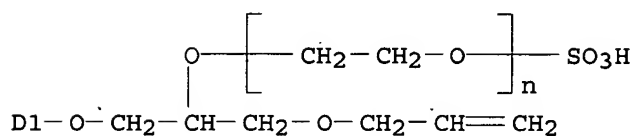
CRN 256638-04-7
CMF (C27 H32 O6 . C11 H12 O2 . C8 H8 . C5 H6 O4 . C3 H5 N O . (C2
H4 O)n C21 H34 O6 S . H3 N)x
CCI PMS

CM 2

CRN 113405-85-9
 CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
 CCI IDS, PMS

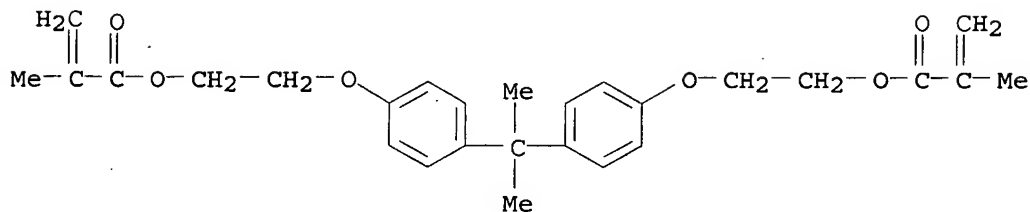


D1- (CH₂)₈-Me



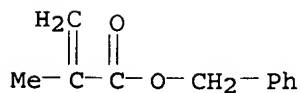
CM 3

CRN 24448-20-2
 CMF C27 H32 O6



CM 4

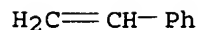
CRN 2495-37-6
 CMF C11 H12 O2



CM 5

CRN 100-42-5

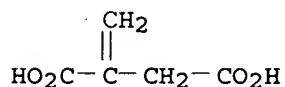
CMF C8 H8



CM 6

CRN 97-65-4

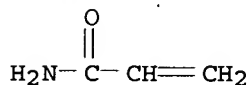
CMF C5 H6 O4



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 256638-07-0 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, di-2-propenyl ester, polymer with ethenylbenzene, methylenebutanedioic acid, methyl 2-methyl-2-propenoate, 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-06-9

CMF (C14 H14 O4 . C8 H8 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . (C2 H4 O)n C21 H34 O6 S . H3 N)x

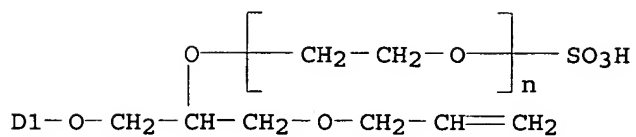
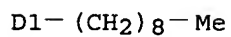
CCI PMS

CM 2

CRN 113405-85-9

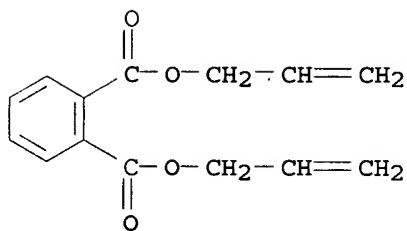
CMF (C2 H4 O)n C21 H34 O6 S . H3 N

CCI IDS, PMS



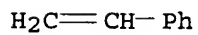
CM 3

CRN 131-17-9
CMF C14 H14 O4



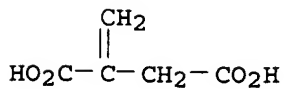
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

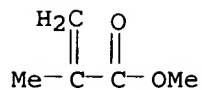
CRN 97-65-4
CMF C5 H6 O4



CM 6

CRN 80-62-6

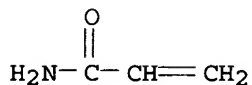
CMF C5 H8 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 256638-09-2 HCAPLUS

CN Butanedioic acid, methylene-, polymer with ethenyl benzoate, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-08-1

CMF (C27 H32 O6 . C9 H8 O2 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . (C2 H4 O)n C21 H34 O6 S . H3 N)x

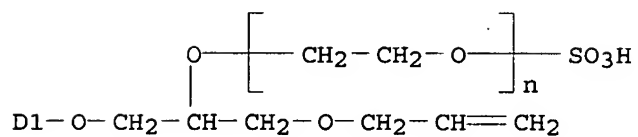
CCI PMS

CM 2

CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

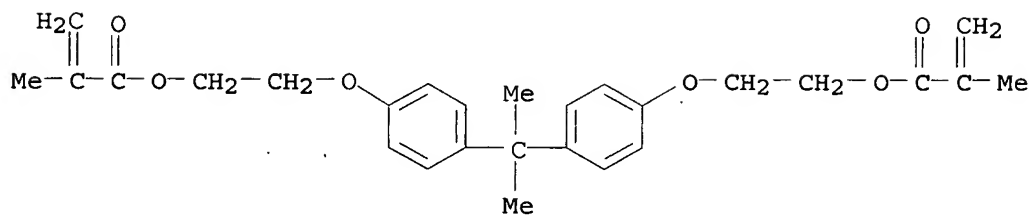
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 3

CRN 24448-20-2

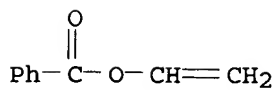
CMF C27 H32 O6



CM 4

CRN 769-78-8

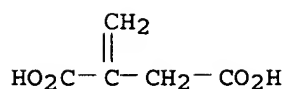
CMF C9 H8 O2



CM 5

CRN 97-65-4

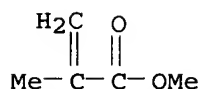
CMF C5 H6 O4



CM 6

CRN 80-62-6

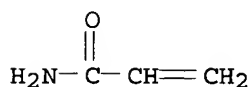
CMF C5 H8 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 256638-11-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, 2-propenamide, 2-propenenitrile and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxypoly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-10-5

CMF (C27 H32 O6 . C8 H8 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . C3 H3 N . (C2 H4 O)n C21 H34 O6 S . H3 N)x

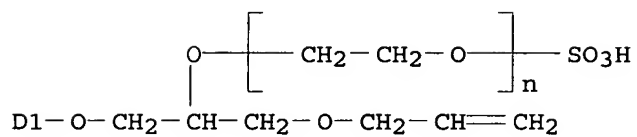
CCI PMS

CM 2

CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

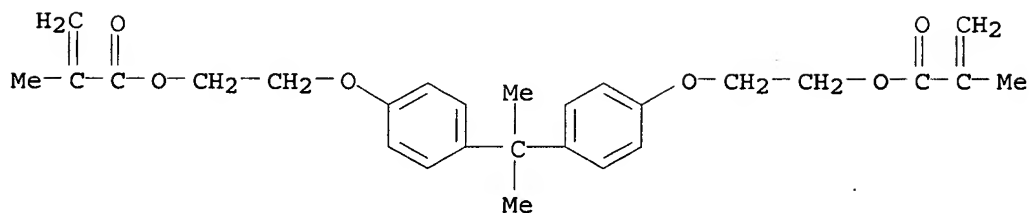
CCI . IDS, PMS

D1- (CH₂)₈-Me

CM 3

CRN 24448-20-2

CMF C27 H32 O6



CM 4

CRN 107-13-1

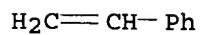
CMF C3 H3 N



CM 5

CRN 100-42-5

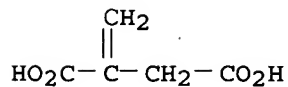
CMF C8 H8



CM 6

CRN 97-65-4

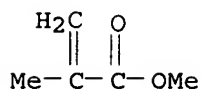
CMF C5 H6 O4



CM 7

CRN 80-62-6

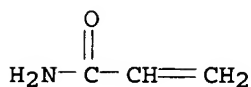
CMF C5 H8 O2



CM 8

CRN 79-06-1

CMF C3 H5 N O



RN 256638-13-8 HCAPLUS

CN Butanedioic acid, methylene-, polymer with (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, 2-propenamide, 2-propenenitrile and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-12-7

CMF (C27 H32 O6 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . C3 H3 N . (C2 H4 O)n C21 H34 O6 S . H3 N)x

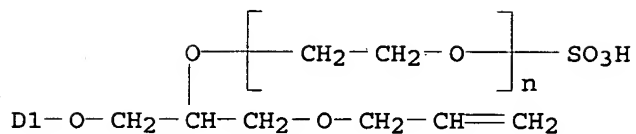
CCI PMS

CM 2

CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

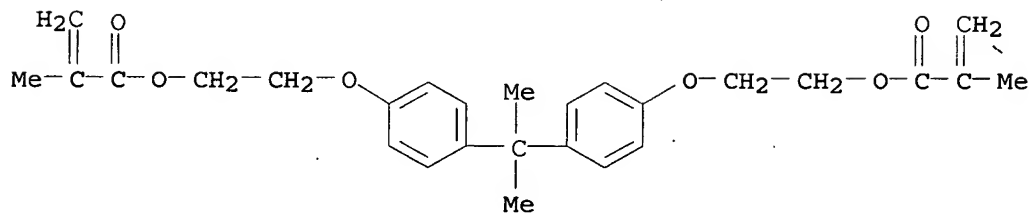
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 3

CRN 24448-20-2

CMF C27 H32 O6



CM 4

CRN 107-13-1

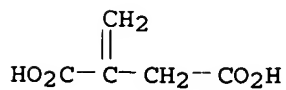
CMF C3 H3 N



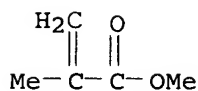
CM 5

CRN 97-65-4

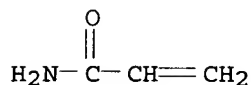
CMF C5 H6 O4



CM 6

CRN 80-62-6
CMF C5 H8 O2

CM 7

CRN 79-06-1
CMF C3 H5 N O

RN 256638-15-0 HCAPLUS

CN Butanedioic acid, methylene-, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate, 2-propenamide, 2-propenenitrile and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256638-14-9

CMF (C27 H32 O6 . C11 H12 O2 . C8 H8 . C5 H8 O2 . C5 H6 O4 . C3 H5 N O . C3 H3 N . (C2 H4 O)n C21 H34 O6 S . H3 N)x

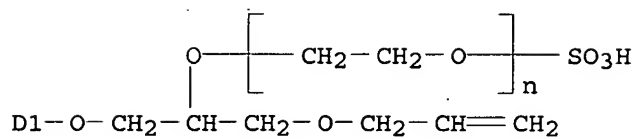
CCI PMS

CM 2

CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

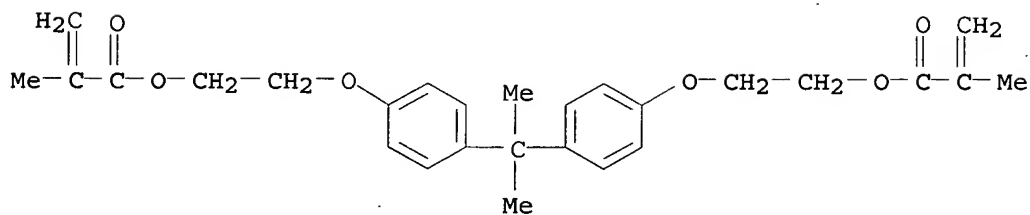
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 3

CRN 24448-20-2

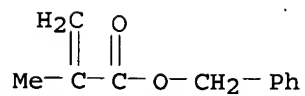
CMF C27 H32 O6



CM 4

CRN 2495-37-6

CMF C11 H12 O2



CM 5

CRN 107-13-1

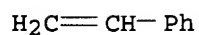
CMF C3 H3 N



CM 6

CRN 100-42-5

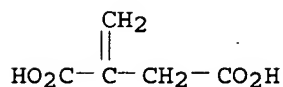
CMF C8 H8



CM 7

CRN 97-65-4

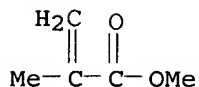
CMF C5 H6 O4



CM 8

CRN 80-62-6

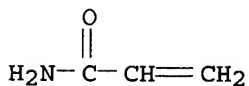
CMF C5 H8 O2



CM 9

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08L033-04

ICS C08F002-24; D01F002-10; C08F220-10

CC 40-6 (Textiles and Fibers)

Section cross-reference(s): 35

ST acrylic latex cellulose fiber disperse dyeability; emulsion polymn

acrylamide polymer cellulose fiber; dry **cleaning** fastness

cellulose fiber dyeing; spinnability cellulose fiber latex blend

IT Fibers

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)

(cellulosic; preparation of latexes for improving disperse dyeability of cellulose fibers with good spinnability and dry-**cleaning** fastness)

IT Polymerization
(emulsion; preparation of latexes for improving disperse dyeability of cellulose fibers with good spinnability and dry-cleaning fastness)

IT Disperse dyeing
Latex
(preparation of latexes for improving disperse dyeability of cellulose fibers with good spinnability and dry-cleaning fastness)

IT 256638-01-4P 256638-03-6P 256638-05-8P
256638-07-0P 256638-09-2P 256638-11-6P
256638-13-8P 256638-15-0P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PRP (Properties); PREP (Preparation); USES (Uses)
(preparation of latexes for improving disperse dyeability of cellulose fibers with good spinnability and dry-cleaning fastness)

L43 ANSWER 8 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1999:556620 Document No. 131:186446 Clean paper for ink jet recording. Sugiyama, Katsuhiko; Awano, Mamoru; Taniguchi, Toshiaki; Oiwa, Aki (Oji Paper Co., Ltd., Japan; Showa Highpolymer Co., Ltd.). Jpn. Kokai Tokkyo Koho JP 11235867 A2 19990831 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-97002 19980326. PRIORITY: JP 1997-362519 19971215.

IT 240121-44-2P, Adeka Reasoap SE 10N-ethyl acrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-methacrylic acid-methyl methacrylate copolymer 240121-45-3P
RL: DEV (Device component use); PNU (Preparation, unclassified);
PREP (Preparation); USES (Uses)
(manufacture of clean paper for ink jet recording by impregnating natural pulp-based base paper with aqueous dispersion of polymers comprising acrylates and sulfo-containing ethylenically unsatd. monomers)

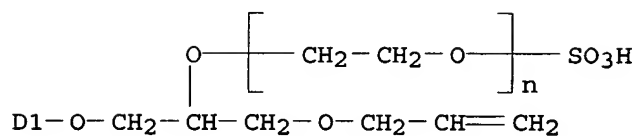
RN 240121-44-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

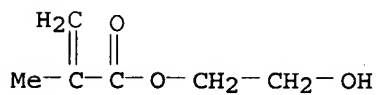
CCI IDS, PMS

D1- (CH₂)₈-Me

CM 2

CRN 868-77-9

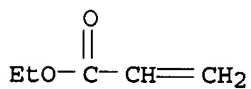
CMF C6 H10 O3



CM 3

CRN 140-88-5

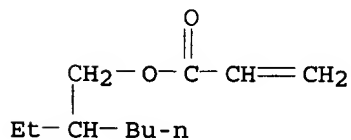
CMF C5 H8 O2



CM 4

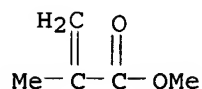
CRN 103-11-7

CMF C11 H20 O2



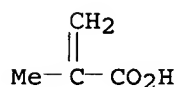
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

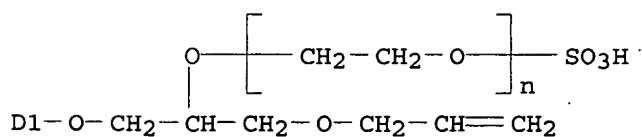
CRN 79-41-4
CMF C4 H6 O2



RN 240121-45-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

CM 1

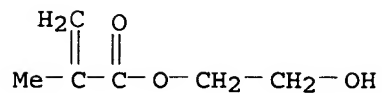
CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

D1-(CH₂)₈-Me● NH₃

CM 2

CRN 868-77-9

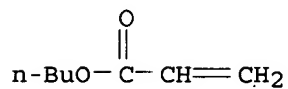
CMF C6 H10 O3



CM 3

CRN 141-32-2

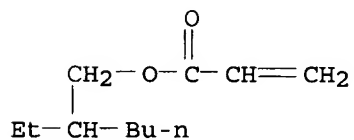
CMF C7 H12 O2



CM 4

CRN 103-11-7

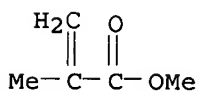
CMF C11 H20 O2



CM 5

CRN 80-62-6

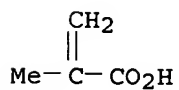
CMF C5 H8 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



- IC ICM B41M005-00
ICS B41J002-01; D21H019-20
- CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
Section cross-reference(s): 38
- ST ink jet printing **clean** paper polymer impregnation;
acrylate sulfoacryloxyethoxypolyoxyethylene copolymer impregnation
ink jet printing paper
- IT Ink-jet recording sheets
(paper; manufacture of **clean** paper for ink jet recording by
impregnating natural pulp-based base paper with aqueous dispersion of
polymers comprising acrylates and sulfo-containing ethylenically
unsatd. monomers)
- IT Paper
Paper
(printing, ink-jet; manufacture of **clean** paper for ink jet
recording by impregnating natural pulp-based base paper with aqueous
dispersion of polymers comprising acrylates and sulfo-containing
ethylenically unsatd. monomers)
- IT 9005-25-8D, Starch, cationic derivs., uses 9012-76-4, Chitosan
13463-67-7, Titania, uses 102577-34-4, C 318 176781-24-1, Oji
Ace K 100
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(base paper containing; manufacture of **clean** paper for ink jet
recording by impregnating natural pulp-based base paper with aqueous
dispersion of polymers comprising acrylates and sulfo-containing
ethylenically unsatd. monomers)
- IT 240121-44-2P, Adeka Reasoap SE 10N-ethyl
acrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-
methacrylic acid-methyl methacrylate copolymer 240121-45-3P
240121-46-4P, Aqualon RN 20-ethyl acrylate-2-ethylhexyl
acrylate-2-hydroxyethyl methacrylate-methacrylic acid-methyl
methacrylate copolymer 240121-47-5P, Ethyl acrylate-2-ethylhexyl
acrylate-2-hydroxyethyl methacrylate-methacrylic acid-methyl
methacrylate-Antox MS 60 copolymer
RL: DEV (Device component use); PNU (Preparation, unclassified);
PREP (Preparation); USES (Uses)
(manufacture of **clean** paper for ink jet recording by
impregnating natural pulp-based base paper with aqueous dispersion of
polymers comprising acrylates and sulfo-containing ethylenically
unsatd. monomers)
- L43 ANSWER 9 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1999:498506 Document No. 131:158781 Latexes of polymers containing
 α,β -unsaturated monocarboxylic acid ester units for
mixing with spinning solutions for manufacture of regenerated
cellulosic fibers dyeable with disperse dyes with good color yield
and colorfastness. Otsuka, Masahiko; Kimura, Teruo (Asahi Chemical
Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 11217722 A2
19990810 Heisei, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION:
JP 1998-12935 19980126.
- IT 237757-32-3P, Acrylamide-Adeka Reasoap SE 10-itaconic
acid-methyl methacrylate-styrene-trimethylolpropane trimethacrylate
copolymer 237757-33-4P, Acrylamide-Adeka Reasoap SE
10-ethylene glycol dimethacrylate-itaconic acid-methyl
methacrylate-styrene copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
POF (Polymer in formulation); PRP (Properties); PREP (Preparation);
USES (Uses)

(latexes of polymers containing α,β -unsatd. monocarboxylic acid ester units for mixing with spinning solns. for manufacture of regenerated cellulosic fibers dyeable with disperse dyes with good color yield and colorfastness)

RN 237757-32-3 HCAPLUS

CN Butanedioic acid, methylene-, polymer with ethenylbenzene, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), methyl 2-methyl-2-propenoate, 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

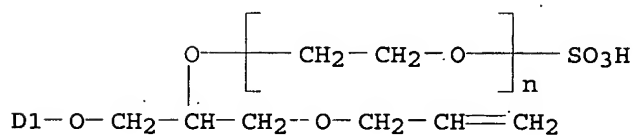
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS



D1- (CH₂)₈-Me

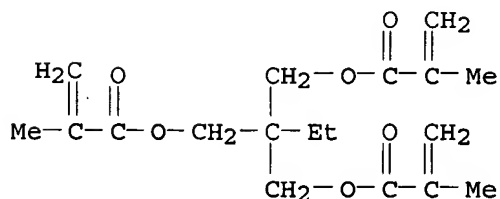


● NH₃

CM 2

CRN 3290-92-4

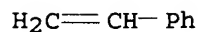
CMF C18 H26 O6



CM 3

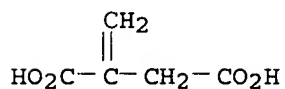
CRN 100-42-5

CMF C8 H8



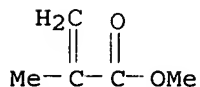
CM 4

CRN 97-65-4
CMF C5 H6 O4



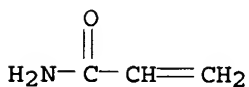
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O

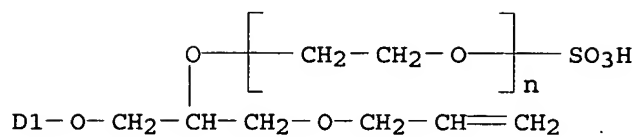


RN 237757-33-4 HCAPLUS

CM Butanedioic acid, methylene-, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, methyl 2-methyl-2-propenoate, 2-propenamide and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 2

CRN 100-42-5

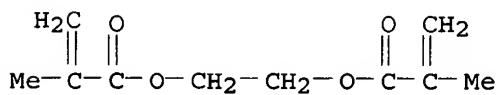
CMF C8 H8



CM 3

CRN 97-90-5

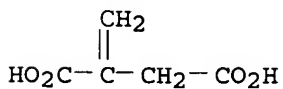
CMF C10 H14 O4



CM 4

CRN 97-65-4

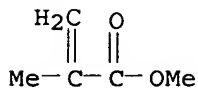
CMF C5 H6 O4



CM 5

CRN 80-62-6

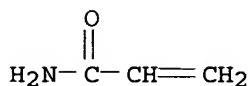
CMF C5 H8 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



IC ICM D01F002-06

ICS C08F002-24; D01F002-08; D01F001-10

CC 40-2 (Textiles and Fibers)

Section cross-reference(s): 35

IT 237757-32-3P, Acrylamide-Adeka Reasoap SE 10-itaconic acid-methyl methacrylate-styrene-trimethylolpropane trimethacrylate copolymer 237757-33-4P, Acrylamide-Adeka Reasoap SE 10-ethylene glycol dimethacrylate-itaconic acid-methyl methacrylate-styrene copolymer

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

POF (Polymer in formulation); PRP (Properties); PREP (Preparation);

USES (Uses)

(latexes of polymers containing α,β -unsatd. monocarboxylic acid ester units for mixing with spinning solns. for manufacture of regenerated cellulosic fibers dyeable with disperse dyes with good color yield and colorfastness)

L43 ANSWER 10 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1999:331509 Document No. 131:20582 **Detergent** compositions

with low skin irritation. Yokoi, Kenji; Takahashi, Masatoshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 11140485 A2 19990525

Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP

1997-316542 19971031.

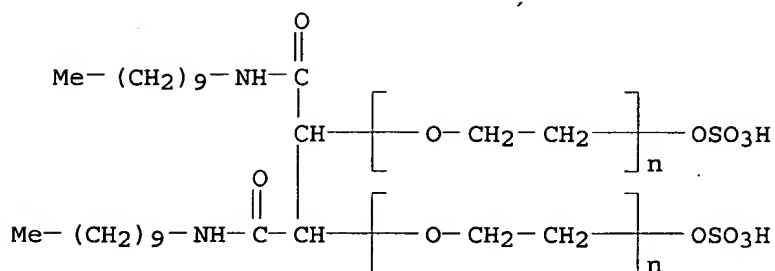
IT 226091-32-3P 226091-34-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(**detergent** compns. containing alkoxylated tartaramide derivs. as anionic **surfactants** for low skin irritation)

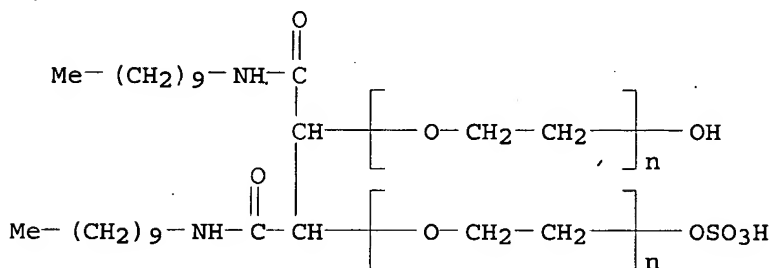
RN 226091-32-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α,α' -[1,2-bis[(decylamino)carbonyl]-1,2-ethanediyl]bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



●₂ Na

RN 226091-34-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), ω-hydroxy-ω'-(sulfooxy)-
α,α'-[1,2-bis[(decylamino)carbonyl]-1,2-ethanediyl]bis-,
monosodium salt (9CI) (CA INDEX NAME)



● Na

```

IC      ICM      C11D001-06
ICS     A61K007-075; A61K007-50; C11D001-10; C11D001-12; C11D001-28;
        C11D001-34
CC      46-3 (Surface Active Agents and Detergents)
        Section cross-reference(s): 62
ST      alkoxyated tartaramide anionic surfactant skin
        irritation; shampoo ethoxylated bisdecyltartamide
        sulfonate surfactant
IT      Surfactants
        (anionic; detergent compns. containing alkoxyated
        tartaramide derivs. as anionic surfactants for low skin
        irritation)
IT      Cosmetics
        (cleansing; detergent compns. containing
        alkoxyated tartaramide derivs. as anionic surfactants
        for low skin irritation)
IT      Detergents
        Shampoos
        (detergent compns. containing alkoxyated tartaramide
        derivs. as anionic surfactants for low skin irritation)
IT      Detergents
        (dishwashing; detergent compns. containing alkoxyated
        tartaramide derivs. as anionic surfactants for low skin

```

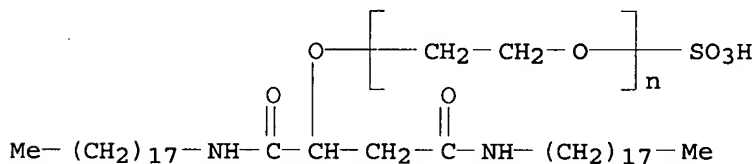
IT	226091-32-3P	226091-34-5P	226091-36-7P	
	226091-37-8P	226091-39-0P	226091-41-4P	226091-43-6P
	226091-45-8P	226091-46-9P	226091-47-0P	226219-28-9P
	226228-93-9P			

(detergent compns. containing alkoxyated tartaramide
derivs. as anionic **surfactants** for low skin irritation)

IT 226089-96-9P

(malamide derivs. as anionic **surfactants** for conditioning agents)

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[3-(octadecylamino)-1-[(octadecylamino)carbonyl]-3-oxopropoxy]-, monosodium salt (9CI)
(CA INDEX NAME)



IC	ICM	C11D001-06
	ICS	A61K007-06; C11D001-10; C11D001-12; C11D001-28; C11D001-34

Section cross-reference(s) : 62

IT Surfactants

(anionic; malamide derivs. as anionic surfactants for conditioning agents)

(conditioning; malamide derivs. as anionic surfactants for conditioning agents)

(laundry; malamide derivs. as anionic
surfactants for conditioning agents)

(malamide derivs. as anionic surfactants for conditioning agents)

IT 226089-93-6P 226089-96-9P 226089-98-1P 226090-00-2P

226213-41-8P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(malamide derivs. as anionic **surfactants** for conditioning agents)

L43 ANSWER 12 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

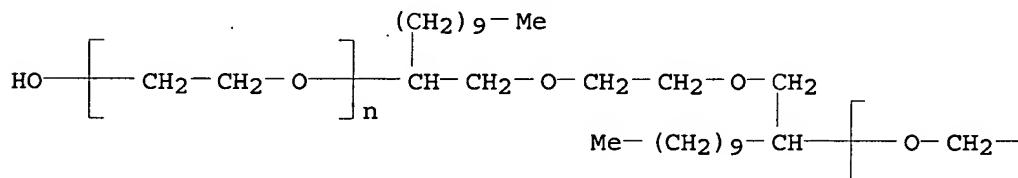
1999:207228 Document No. 130:283710 Nonirritating **surfactants** with excellent solubility in water and **detergent** compositions containing them. Yokoi, Kenji; Takahashi, Masatoshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 11080783 A2 19990326 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-250056 19970829.

IT 222532-73-2P, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-diol, monosulfate, sodium salt 222532-74-3P, Ethoxylated 1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium salt 222532-75-4P, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-1,11-undecanediol, monoethyl ether, monosulfate, sodium salt 222532-76-5P, Ethoxylated 1,8-bis(decyloxymethyl)-3,6-dioxaoctane-1,8-diol, monosulfate, sodium salt 222532-77-6P, Ethoxylated 1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol, monoethyl ether, monosulfate, sodium salt 222532-78-7P, Ethoxylated 1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium salt
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(nonirritating **surfactants** with good solubility in water for **detergent** compns.)

RN 222532-73-2 HCAPLUS

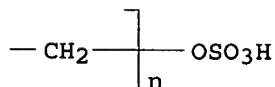
CN Poly(oxy-1,2-ethanediyl), ω-hydroxy-ω'-(sulfooxy)-α,α'-[1,2-ethanediylbis[oxy(1-decyl-2,1-ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



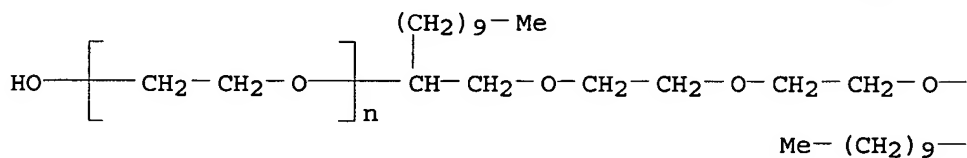
● Na

PAGE 1-B



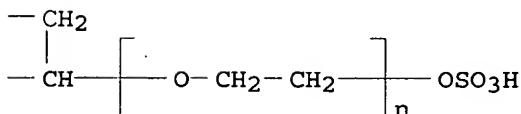
RN 222532-74-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), ω -hydroxy- ω' -(sulfooxy)-
 α, α' -[oxybis[2,1-ethanediyl]oxy(1-decyl-2,1-
 ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



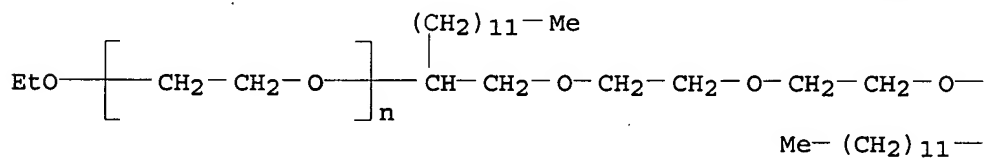
● Na

PAGE 1-B



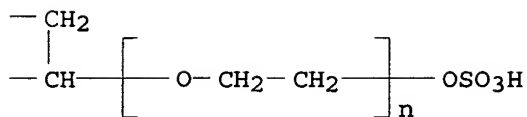
RN 222532-75-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), ω -ethoxy- ω' -(sulfooxy)-
 α, α' -[oxybis[2,1-ethanediyl]oxy(1-dodecyl-2,1-
 ethanediyl)]]bis-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

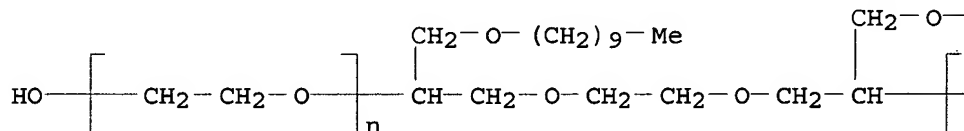
PAGE 1-B



RN 222532-76-5 HCAPLUS

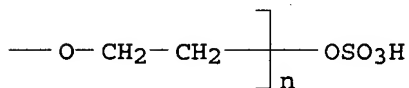
CN Poly(oxy-1,2-ethanediyl), ω -hydroxy- ω' -(sulfooxy)-
 α, α' -[1,2-ethanediylbis[oxy[1-[(decyloxy)methyl]-2,1-
 ethanediyl]]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

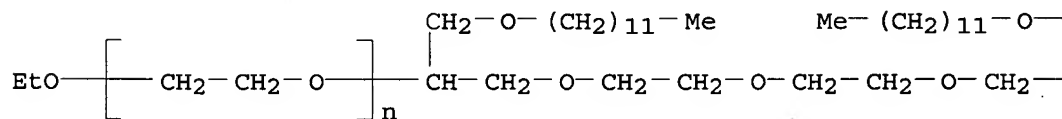
PAGE 1-B

--- (CH₂)₉---Me

RN 222532-77-6 HCAPLUS

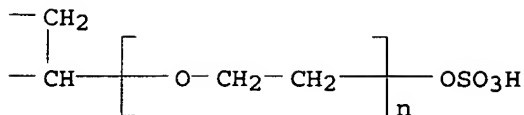
CN Poly(oxy-1,2-ethanediyl), ω -ethoxy- ω' -(sulfooxy)-
 α, α' -[oxybis[2,1-ethanediyl]oxy[1-[(dodecyloxy)methyl]-
 2,1-ethanediyl]]]bis-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



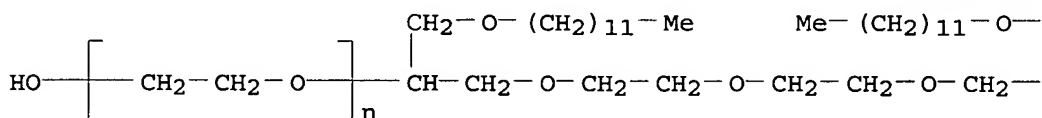
● Na

PAGE 1-B



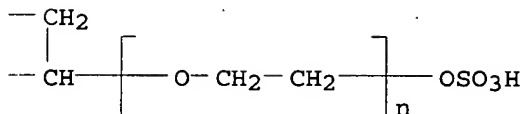
RN 222532-78-7 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), ω-hydroxy-ω'-(sulfooxy)-
 α,α'-[oxybis[2,1-ethanediyl]oxy[1-[(dodecyloxy)methyl]-
 2,1-ethanediyl]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



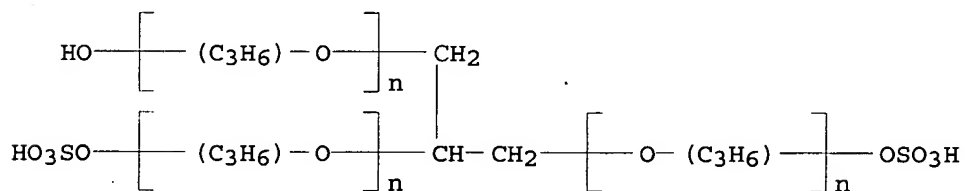
IC ICM C11D001-29
 ICS B01F017-04; B01F017-42; A61K007-075; A61K007-50
 CC 46-3 (Surface Active Agents and Detergents)
 Section cross-reference(s): 62
 ST nonirritating **surfactant** polyoxyalkylene sulfate manuf;
shampoo surfactant polyoxyalkylene sulfate
 foamability
 IT **Detergents**
 (dishwashing; nonirritating **surfactants** with good solubility
 in water for **detergent** compns.)
 IT **Shampoos**
Surfactants
 (nonirritating **surfactants** with good solubility in water for
detergent compns.)
 IT 222532-73-2P, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-
 diol, monosulfate, sodium salt 222532-74-3P, Ethoxylated
 1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium
 salt 222532-75-4P, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-
 1,11-undecanediol, monoethyl ether, monosulfate, sodium salt
 222532-76-5P, Ethoxylated 1,8-bis(decyloxymethyl)-3,6-
 dioxaoctane-1,8-diol, monosulfate, sodium salt 222532-77-6P
 , Ethoxylated 1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-
 undecanediol, monoethyl ether, monosulfate, sodium salt
 222532-78-7P, Ethoxylated 1,11-bis(dodecyloxymethyl)-3,6,9-

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (nonirritating **surfactants** with good solubility in water for **detergent** compns.)

IT 70979-40-7
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
 (dishwashing detergent liqs. containing
 amide ether carboxylic acids, amide ethers, and polyoxyalkylene
 ethers)

RN 70979-40-7 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)], ω-hydroxy-ω',ω''-
bis(sulfooxy)-α,α',α''-1,2,3-propanetriyltris-,
dipotassium salt (9CI) (CA INDEX NAME)



IC C11D001-06
ICS C11D001-10; C11D003-20

CC 46-6 (Surface Active Agents and **Detergents**)

ST dishwashing **detergent** low temp stability; amide ether
carboxylic acid salt **detergent**; polyoxyalkylene polyhydric
alc ether dishwashing **detergent**

IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(amide ether carboxylic acid salts; **dishwashing
detergent liqs. containing**)

IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(amide ethers; **dishwashing detergent
liqs. containing**)

IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(**dishwashing detergent liqs. containing**)

amide ether carboxylic acids, amide ethers, and polyoxyalkylene ethers)

- IT **Detergents**
Detergents
 (dishwashing, liquid; dishwashing detergent liqs. containing amide ether carboxylic acids, amide ethers, and polyoxyalkylene ethers)
- IT Polyoxyalkylenes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (ethers, phosphate salts; dishwashing detergent liqs. containing)
- IT Polyoxyalkylenes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (ethers, sulfate salts; dishwashing detergent liqs. containing)
- IT 1120-16-7D, Dodecanamide, reaction products with polyoxyalkylene ethers 9051-48-3, Polypropylene glycol ethylene glycol ether 25322-68-3 25791-96-2, Polypropylene glycol glycerol ether 41675-87-0, Polyethylene glycol monosulfate sodium salt 42503-45-7, Polyethylene glycol pentaerythritol ether 52625-13-5, Polypropylene glycol sorbitol ether 57608-15-8 **70979-40-7** 90453-60-4 90453-60-4D, magnesium complexes 100424-86-0 128286-37-3 128331-62-4 128362-32-3 174303-62-9 181998-31-2 208393-48-0 208393-51-5 208469-13-0 208600-05-9D, reaction products with amides
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (dishwashing detergent liqs. containing amide ether carboxylic acids, amide ethers, and polyoxyalkylene ethers)

- L43 ANSWER 14 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
- 1998:176164 Document No. 128:206059 Aqueous dispersions of colored resin fine particles and water-based ink compositions based thereon. Idogawa, Hiroyuki; Ogiwara, Yasuaki; Iwara, Atsushi; Sakurai, Kiyokazu (Mitsubishi Pencil K. K., Japan). Ger. Offen. DE 19738145 A1 19980305, 23 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1997-19738145 19970901. PRIORITY: JP 1996-232274 19960902; JP 1996-232276 19960902; JP 1996-233387 19960903; JP 1996-233388 19960903; JP 1996-303132 19961114; JP 1996-303133 19961114; JP 1996-303134 19961114; JP 1996-303135 19961114; JP 1996-323815 19961204; JP 1997-4642 19970114.
- IT 203860-11-1P 204010-51-5P, Acryl Ester SA Aizen Cathilon Red BLH salt-Adekalia Soap SE 10N-methyl methacrylate-triallyl cyanurate copolymer 204010-71-9P, Acryl Ester SA Aizen Cathilon Red BLH salt-Adekalia Soap SE 10N-methyl methacrylate copolymer 204010-73-1P 204010-81-1P, Acryl Ester HH Aizen Cathilon Red BLH salt-Adekalia Soap SE 10N-methyl methacrylate-triallyl cyanurate copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aqueous ink compns. based on dispersions of colored resin fine particles)
- RN 203860-11-1 HCAPLUS
- CN Benzothiazolium, 3-(3-amino-3-oxopropyl)-2-[[1-methyl-2-(4-methylphenyl)-1H-indol-3-yl]azo]-, salt with 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen butanedioate (1:1), polymer with methyl

2-methyl-2-propenoate, 2-methyl-2-propenenitrile and
 α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-
 propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA
 INDEX NAME)

CM 1

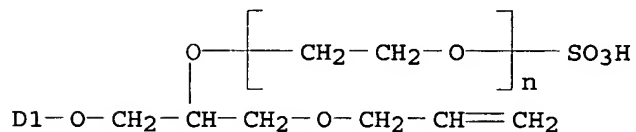
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS



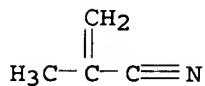
D1- (CH₂)₈-Me



CM 2

CRN 126-98-7

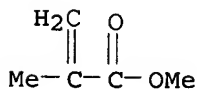
CMF C4 H5 N



CM 3

CRN 80-62-6

CMF C5 H8 O2

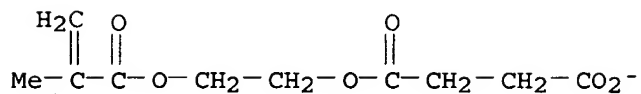


CM 4

CRN 203860-10-0
CMF C26 H24 N5 O S . C10 H13 O6

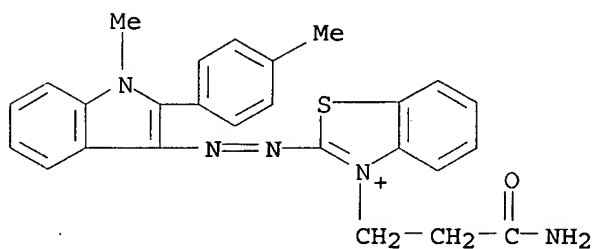
CM 5

CRN 203860-09-7
CMF C10 H13 O6



CM 6

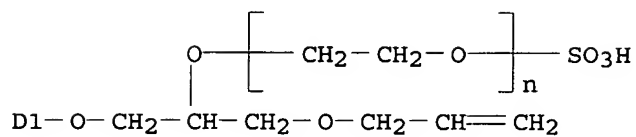
CRN 104424-60-4
CMF C26 H24 N5 O S



RN 204010-51-5 HCAPLUS
CN Benzothiazolium, 3-(3-amino-3-oxopropyl)-2-[[1-methyl-2-(4-methylphenyl)-1H-indol-3-yl]azo]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl butanedioate, polymer with methyl 2-methyl-2-propenoate, α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

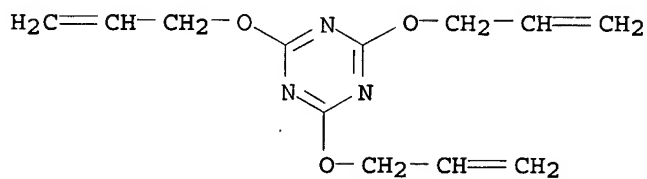
CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 2

CRN 101-37-1

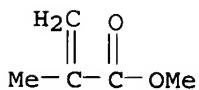
CMF C12 H15 N3 O3



CM 3

CRN 80-62-6

CMF C5 H8 O2



CM 4

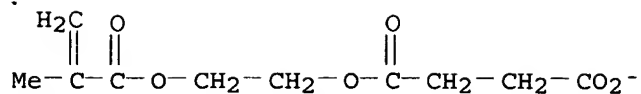
CRN 203860-10-0

CMF C26 H24 N5 O S . C10 H13 O6

CM 5

CRN 203860-09-7

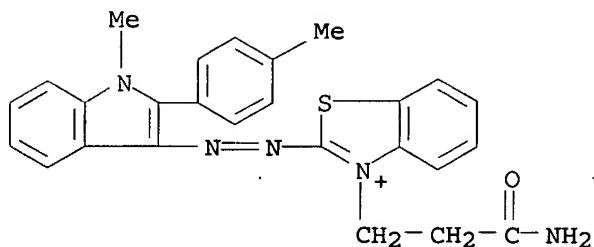
CMF C10 H13 O6



CM 6

CRN 104424-60-4

CMF C26 H24 N5 O S



RN 204010-71-9 HCAPLUS

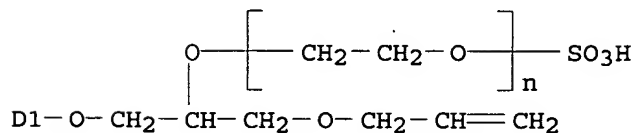
CN Benzothiazolium, 3-(3-amino-3-oxopropyl)-2-[[1-methyl-2-(4-methylphenyl)-1H-indol-3-yl]azo]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl butanedioate, polymer with methyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

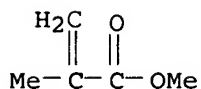
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS

D1-(CH₂)₈-Me● NH₃

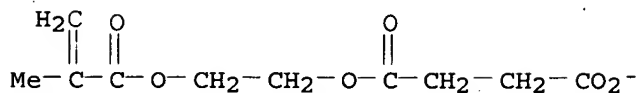
CM 2

CRN 80-62-6
CMF C5 H8 O2

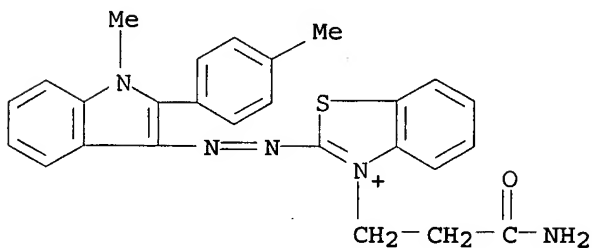
CM 3

CRN 203860-10-0
CMF C26 H24 N5 O S . C10 H13 O6

CM 4

CRN 203860-09-7
CMF C10 H13 O6

CM 5

CRN 104424-60-4
CMF C26 H24 N5 O S

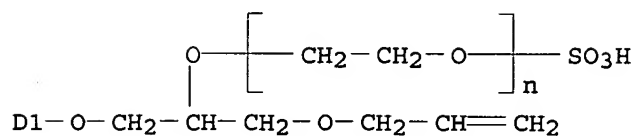
RN 204010-73-1 HCAPLUS

CN Benzothiazolium, 3-(3-amino-3-oxopropyl)-2-[[1-methyl-2-(4-methylphenyl)-1H-indol-3-yl]azo]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl butanedioate, polymer with methyl 2-methyl-2-propenoate; α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and 2,2,2-trifluoroethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9
CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

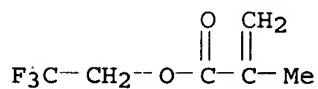
CCI IDS, PMS

D1- (CH₂)₈-Me

CM 2

CRN 352-87-4

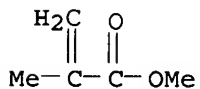
CMF C6 H7 F3 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



CM 4

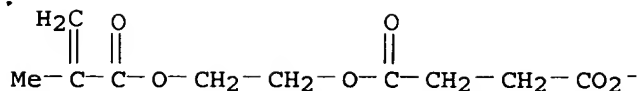
CRN 203860-10-0

CMF C26 H24 N5 O S . C10 H13 O6

CM 5

CRN 203860-09-7

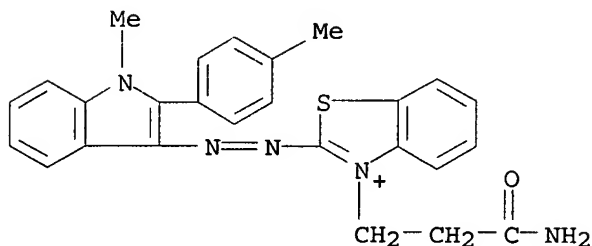
CMF C10 H13 O6



CM 6

CRN 104424-60-4

CMF C26 H24 N5 O S



RN 204010-81-1 HCAPLUS

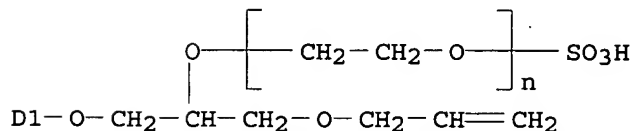
CN Benzothiazolium, 3-(3-amino-3-oxopropyl)-2-[[1-methyl-2-(4-methylphenyl)-1H-indol-3-yl]azo]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 1,2-cyclohexanedicarboxylate, polymer with methyl 2-methyl-2-propenoate, α -sulfo- ω -[1-(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

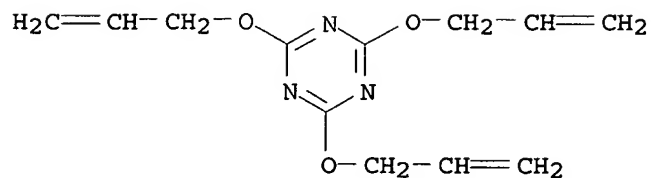
CCI IDS, PMS

D1-(CH₂)₈-Me● NH₃

CM 2

CRN 101-37-1

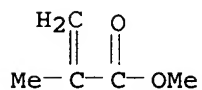
CMF C12 H15 N3 O3



CM 3

CRN 80-62-6

CMF C5 H8 O2



CM 4

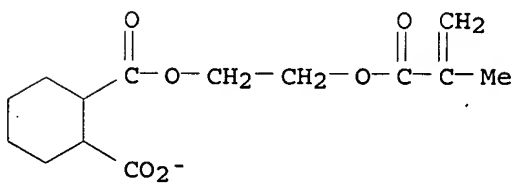
CRN 204010-80-0

CMF C26 H24 N5 O S . C14 H19 O6

CM 5

CRN 204010-79-7

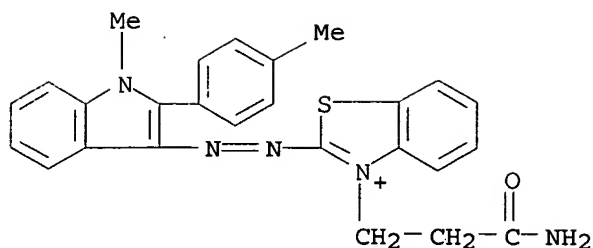
CMF C14 H19 O6



CM 6

CRN 104424-60-4

CMF C26 H24 N5 O S



IC ICM C09D011-00

ICS C08F226-06

ICA C09D011-02; C09D011-16

CC 42-12 (Coatings, Inks, and Related Products)

IT **Surfactants**

(polymerizable; aqueous ink compns. based on dispersions of colored resin fine particles)

IT 203860-08-6P, uses 203860-11-1P 203860-12-2P, uses 203860-13-3P, uses 203860-14-4P, uses 204010-51-5P, Acryl Ester SA Aizen Cathilon Red BLH salt-Adekalia Soap

SE 10N-methyl methacrylate-triallyl cyanurate copolymer

204010-71-9P, Acryl Ester SA Aizen Cathilon Red BLH

salt-Adekalia Soap SE 10N-methyl methacrylate copolymer

204010-73-1P 204010-81-1P, Acryl Ester HH Aizen

Cathilon Red BLH salt-Adekalia Soap SE 10N-methyl

methacrylate-triallyl cyanurate copolymer 204010-87-7P, Acryl

Ester PA Aizen Cathilon Pure Blue 5GH salt-Latemul S

180A-styrene-triallyl cyanurate copolymer

RL: IMF (Industrial manufacture); TEM (Technical or engineered

material use); PREP (Preparation); USES (Uses)

(aqueous ink compns. based on dispersions of colored resin fine particles)

L43 ANSWER 15 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:107015 Document No. 126:118575 Manufacture of aqueous polymer dispersions giving alkali- and weather-resistant films. Oonishi, Tetsuya (Showa Highpolymer, Japan). Jpn. Kokai Tokkyo Koho JP 08311113 A2 19961126 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-118630 19950517.

IT **186027-76-9P**

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

((meth)acrylate ester polymer aqueous dispersions prepared by using reactive sulfate emulsifiers for glossy coatings)

RN 186027-76-9 HCAPLUS

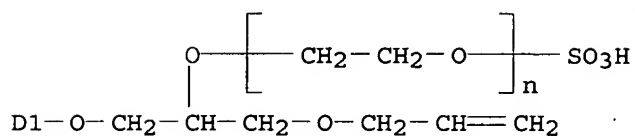
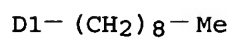
CN Butanedioic acid, methylene-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

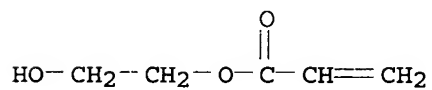
CCI IDS, PMS



CM 2

CRN 818-61-1

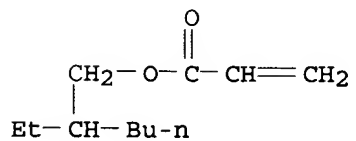
CMF C5 H8 O3



CM 3

CRN 103-11-7

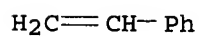
CMF C11 H20 O2



CM 4

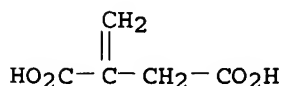
CRN 100-42-5

CMF C8 H8



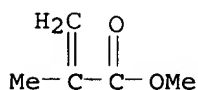
CM 5

CRN 97-65-4
CMF C5 H6 O4



CM 6

CRN 80-62-6
CMF C5 H8 O2

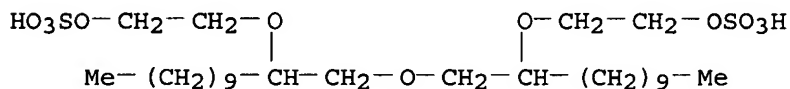


- IC ICM C08F002-22
ICS C08F002-24; C08F216-14; C08F220-12; C09D133-06
- CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 42
- ST acrylate ester polymer aq dispersion; reactive **emulsifier**
sulfate salt copolymer; methacrylate ester polymer aq dispersion;
itaconic acid copolymer aq dispersion; unsatd sulfate ester
copolymer dispersion; coating gloss weatherability aq emulsion;
methyl methacrylate copolymer aq dispersion; ethylhexyl acrylate
copolymer aq dispersion; hydroxyethyl acrylate copolymer aq
dispersion; styrene acrylate ester copolymer dispersion
- IT Emulsifying agents
(reactive; (meth)acrylate ester polymer aqueous dispersions prepared by
using reactive sulfate **emulsifiers** for glossy coatings)
- IT Coating materials
(water-resistant; (meth)acrylate ester polymer aqueous dispersions
prepared by using reactive sulfate **emulsifiers** for glossy
coatings)
- IT 186027-76-9P 186027-77-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
((meth)acrylate ester polymer aqueous dispersions prepared by using
reactive sulfate **emulsifiers** for glossy coatings)
- L43 ANSWER 16 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1997:18389 Document No. 126:48619 Oligomeric alkyl ether sulfates and
their use in **cleaning** compositions. Ricca, Jean-Marc
(Rhone-Poulenc Chimie SA, Fr.; Ricca, Jean-Marc). PCT Int. Appl. WO
9635663 A1 19961114, 36 pp. DESIGNATED STATES: W: AL, AM, AU, BB,
BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MD,
MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN,
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH,
CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE,
NL, PT, SE, SN, TD, TG. (French). CODEN: PIXXD2. APPLICATION: WO
1996-FR715 19960510. PRIORITY: FR 1995-5597 19950511.
- IT 184951-07-3P 184951-08-4P 184951-10-8P
184951-12-0P 184951-14-2P
RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)

(preparation of oligomeric alkyl ether sulfates and their use in cleaning compns.)

RN 184951-07-3 HCAPLUS

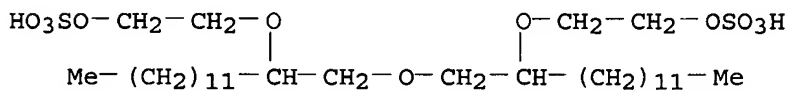
CN Ethanol, 2,2'-[oxybis[(1-decyl-2,1-ethanediyl)oxy]]bis-, bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-08-4 HCAPLUS

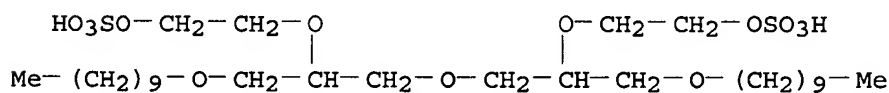
CN Ethanol, 2,2'-[oxybis[(1-dodecyl-2,1-ethanediyl)oxy]]bis-, bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-10-8 HCAPLUS

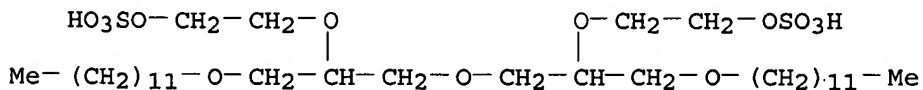
CN Ethanol, 2,2'-[oxybis[[1-[(decyloxy)methyl]-2,1-ethanediyl]oxy]]bis-, bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-12-0 HCAPLUS

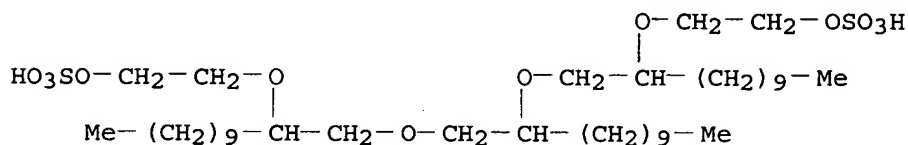
CN Ethanol, 2,2'-[oxybis[[1-[(dodecyloxy)methyl]-2,1-ethanediyl]oxy]]bis-, bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-14-2 HCAPLUS

CN 3,6,9,12-Tetraoxatetradecane-1,14-diol, 4,7,11-tris(decyl)-, bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



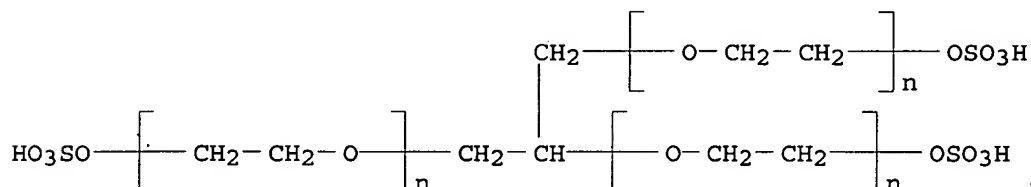
●2 Na

- IC ICM C07C305-10
ICS C11D001-16; A61K007-16
- CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 62
- ST anionic **surfactant** alkyl ether sulfate; **detergent**
compn anionic **surfactant**; cosmetic compn anionic
surfactant; toothpaste compn anionic **surfactant**
- IT **Surfactants**
(anionic; preparation of oligomeric alkyl ether sulfates and their use
in **cleaning** compns.)
- IT Cosmetics
Dentifrices
Detergents
(preparation of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
- IT 184951-07-3P 184951-08-4P 184951-10-8P
184951-12-0P 184951-14-2P
RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)
(preparation of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
- IT 1072-53-3P, Ethylene sulfate 3647-12-9P, Bis(2-hydroxydodecyl)
ether 124029-03-4P, Bis(2-hydroxytetradecyl) ether 134450-08-1P
184951-04-0P 184951-05-1P 184951-06-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
- IT 1119-87-5, 1,2-Dodecanediol 1561-07-5, 3-Dodecyloxy-1,2-
propanediol 2461-18-9, Dodecyl glycidyl ether 2855-19-8,
1,2-Epoxydodecane 3234-28-4, 1,2-Epoxytetradecane 3497-06-1,
Decyl glycidyl ether 3741-38-6, Ethylene sulfite 10430-97-4,
3-Decyloxy-1,2-propanediol 21129-09-9, 1,2-Tetradecanediol
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
- L43 ANSWER 17 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1996:100854 Document No. 124:179557 Bleaching agent compositions
containing hypochlorites with storage stability. Oohira, Kozo;
Ogasawara, Akira; Shionome, Hironobu (Kao Corp, Japan). Jpn. Kokai
Tokkyo Koho JP 07305099 A2 19951121 Heisei, 11 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1995-14575 19950131. PRIORITY: JP
1994-43593 19940315.
- IT 173926-02-8

RL: MOA (Modifier or additive use); USES (Uses)
 (alkali metal hypochlorite-based bleaching agents containing
 polyoxyalkylene sulfates or water-soluble polymers with storage
 stability)

RN 173926-02-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)- (9CI) (CA INDEX NAME)



IC ICM C11D007-54

ICS C11D001-04; C11D001-24; C11D001-75; C11D003-34; C11D003-37;
 C11D003-395; C11D007-40; C11D007-60

ICI C11D007-60, C11D007-10, C11D007-34

CC 46-6 (Surface Active Agents and Detergents)

IT 1643-20-5, Dodecyldimethylamine oxide 3332-27-2,
 Tetradecyldimethylamine oxide 9014-90-8, Emal NC 25155-30-0,
 Sodium dodecylbenzenesulfonate 33939-64-9 36290-04-7, Demol NL
 78067-35-3 173926-02-8

RL: MOA (Modifier or additive use); USES (Uses)
 (alkali metal hypochlorite-based bleaching agents containing
 polyoxyalkylene sulfates or water-soluble polymers with storage
 stability)

L43 ANSWER 18 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

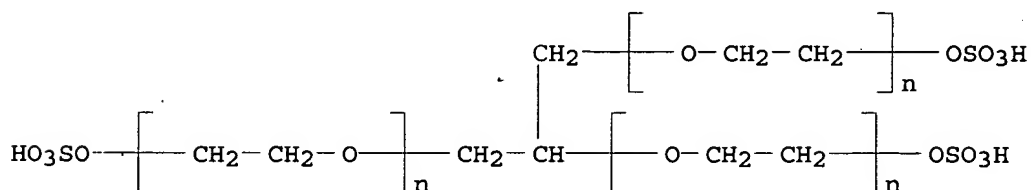
1994:536663 Document No. 121:136663 Liquid detergent
 compositions having good storability and foaming power. Tosaka,
 Masaki; Hayakawa, Yutaka; Ooi, Toshiaki (Kao Corp, Japan). Jpn.
 Kokai Tokkyo Koho JP 06017084 A2 19940125 Heisei, 9 pp. (Japanese).
 CODEN: JKXXAF. APPLICATION: JP 1992-177019 19920703.

IT 110122-28-6

RL: USES (Uses)
 (in liquid detergents, with good storability and foaming
 power)

RN 110122-28-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
 INDEX NAME)

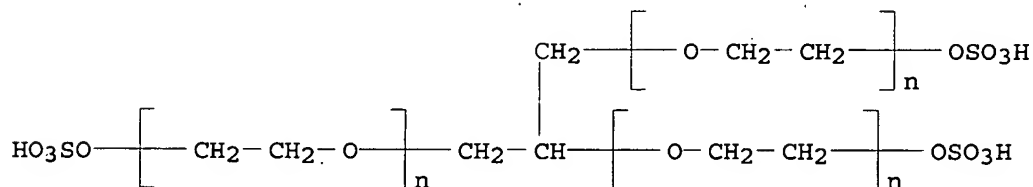


●3 Na

IC ICM C11D001-29
 ICS A61K007-075; A61K007-50; C11D001-34; C11D003-37; C11D003-40
 CC 46-6 (Surface Active Agents and **Detergents**)
 ST liq **detergent** mild foaming power; storability liq
detergent white agent; polyoxyalkylene liq **detergent**
 IT **Detergents**
 (liquid, **surfactant**-white agent-polyoxyalkylene, with
 good storability and foaming power)
 IT 111-57-9 111-60-4 120-40-1 1643-20-5 3332-27-2 9002-92-0
 9004-82-4 13197-76-7 30233-64-8 73038-32-1 **110122-28-6**
 156580-56-2
 RL: USES (Uses)
 (in liquid **detergents**, with good storability and foaming
 power)

L43 ANSWER 19 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1994:486328 Document No. 121:86328 Pearlescent liquid
detergent compositions. Hayakawa, Yutaka; Tosaka, Masaki
 (Kao Corp, Japan). Jpn. Kokai Tokkyo Koho JP 06017089 A2 19940125
 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1992-174500 19920701.
 IT **110122-28-6**
 RL: USES (Uses)
 (liquid **detergents** containing opacifiers and, pearlescent,
 foaming)

RN 110122-28-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
 INDEX NAME)



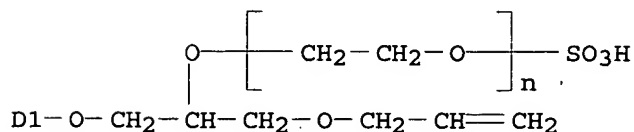
●3 Na

IC ICM C11D001-83
 ICS A61K007-075; A61K007-50
 ICI C11D001-83, C11D001-68, C11D001-29, C11D003-40, C11D003-37,
 C11D001-34, C11D001-02
 CC 46-6 (Surface Active Agents and **Detergents**)
 ST pearlescence liq **detergent** stability; foaming liq
detergent pearlescence; glycoside liq **detergent**
 pearlescence; opacifier liq **detergent** pearlescence; amide
 opacifier **detergent** pearlescence; glyceride opacifier
detergent pearlescence; sulfate liq **detergent**
 pearlescence; phosphate liq **detergent** pearlescence
 IT Opacifiers
 (liquid **detergents** containing, pearlescent, stable, foaming)
 IT Pearly substances
 (liquid **detergents** containing, stable, foaming)

- IT Glycosides
RL: USES (Uses)
(alkyl, liquid **detergents** containing opacifiers and, pearlescent, foaming)
- IT **Detergents**
(liquid, containing glycosides and opacifiers, pearlescent, foaming)
- IT Fatty acids, uses
RL: USES (Uses)
(sulfo, esters, liquid **detergents** containing opacifiers and, pearlescent, foaming)
- IT 9004-82-4, Polyethylene glycol monododecyl ether sulfate sodium salt
59122-55-3 73038-32-1 110122-28-6 156580-56-2
156580-57-3
RL: USES (Uses)
(liquid **detergents** containing opacifiers and, pearlescent, foaming)
- IT 111-57-9 111-60-4, Ethylene glycol monostearate 31566-31-1, Glycerin monostearate
RL: USES (Uses)
(opacifier, liquid **detergent** compns. containing, pearlescent, foaming)
- L43 ANSWER 20 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1993:409224 Document No. 119:9224 Fixation of polymerizable **surfactant** on alumina by UV irradiation. Esumi, Kunio; Nakao, Takashi; Ito, Suguru (Dep. Appl. Chem., Sci. Univ. Tokyo, Tokyo, 162, Japan). Journal of Colloid and Interface Science, 156(1), 256-7 (English) 1993. CODEN: JCISA5. ISSN: 0021-9797.
- IT 113405-85-9, SE 10N
RL: USES (Uses)
(adsorption and polymerization of, on alumina surfaces)
- RN 113405-85-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]-, ammonium salt (9CI) (CA INDEX NAME)

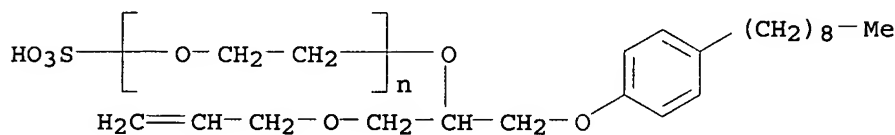


D1- (CH₂)₈-Me



- IT 148105-74-2P
RL: SPN (Synthetic preparation); PREP (Preparation)

CCI PMS



- 571-272-2538

(emulsion polymerization of, coatings, alkali-resistant, for metals)

RN 146126-44-5 HCAPLUS

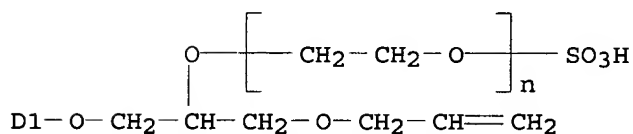
CN Butanoic acid, 3-oxo-, 2-propenyl ester, polymer with butyl
 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate),
 ethenylbenzene, methyl 2-methyl-2-propenoate, 2-propenoic acid and
 α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-
 propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

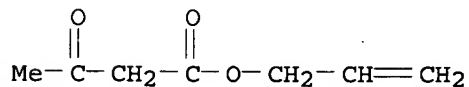
CCI IDS, PMS

D1-(CH₂)₈-Me

CM 2

CRN 1118-84-9

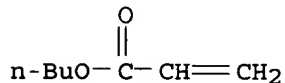
CMF C7 H10 O3



CM 3

CRN 141-32-2

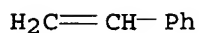
CMF C7 H12 O2



CM 4

CRN 100-42-5

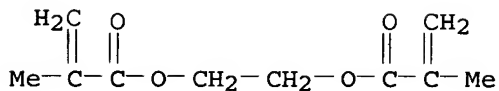
CMF C8 H8



CM 5

CRN 97-90-5

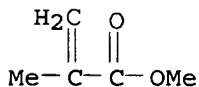
CMF C10 H14 O4



CM 6

CRN 80-62-6

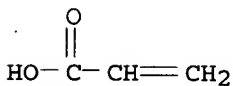
CMF C5 H8 O2



CM 7

CRN 79-10-7

CMF C3 H4 O2



RN 146126-45-6 HCAPLUS

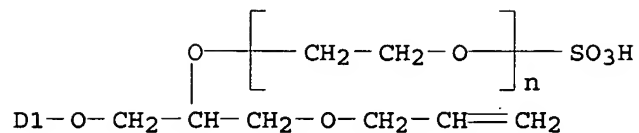
CN Butanoic acid, 3-oxo-, 2-propenyl ester, polymer with 1,4-butanediyl bis(2-methyl-2-propenoate), ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-propenoic acid and α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

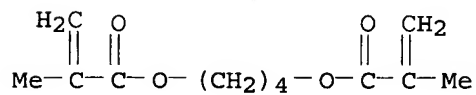
CCI IDS, PMS

D1- (CH₂)₈-Me● NH₃

CM 2

CRN 2082-81-7

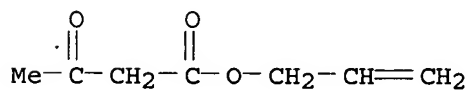
CMF C12 H18 O4



CM 3

CRN 1118-84-9

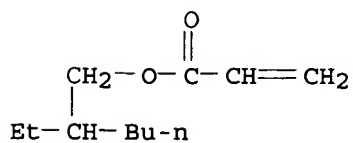
CMF C7 H10 O3



CM 4

CRN 103-11-7

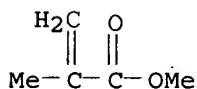
CMF C11 H20 O2



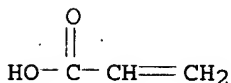
CM 5

CRN 100-42-5
CMF C8 H8

CM 6

CRN 80-62-6
CMF C5 H8 O2

CM 7

CRN 79-10-7
CMF C3 H4 O2

IC ICM C08F246-00

ICS C08F220-28

CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 37

IT Polymerization

(emulsion, of vinyl compds. and reactive emulsifiers,
for metal coatings)IT 146057-75-2 146116-83-8 146126-44-5 146126-45-6
146126-63-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(emulsion polymerization of, coatings, alkali-resistant, for metals)

L43 ANSWER 22 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1991:124955 Document No. 114:124955 Detergents with mildness

to skin. Deguchi, Katsuhiko (Kao Corp., Japan). Jpn. Kokai Tokkyo

Koho JP 02206696 A2 19900816 Heisei, 7 pp. (Japanese). CODEN:

JKXXAF. APPLICATION: JP 1989-24808 19890203.

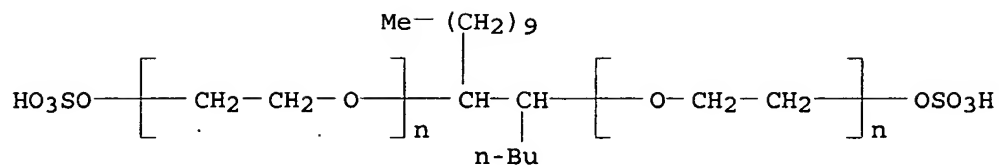
IT 106246-52-0

RL: USES (Uses)

(shampoo containing alkylglycosides and, with mildness to
skin)

RN 106246-52-0 HCAPLUS

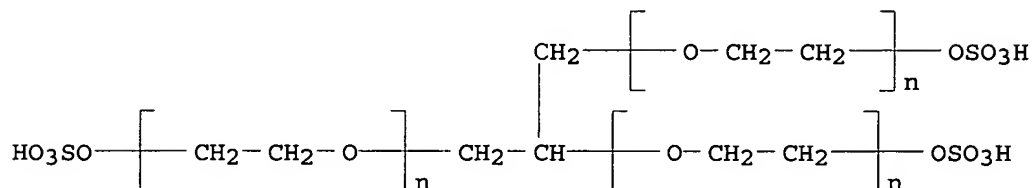
CN Poly(oxy-1,2-ethanediyl), α,α' -(1-butyl-2-decyl-1,2-
ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX
NAME)



● 2 Na

- IC ICM C11D001-825
ICS C11D001-83
- ICI C11D001-825, C11D001-16, C11D001-68; C11D001-83, C11D001-16, C11D001-68
- CC 46-5 (Surface Active Agents and **Detergents**)
Section cross-reference(s): 62
- ST hexadecanediol propoxylate alkylglycoside **detergent**;
tetradecanediol ethoxylate alkylglycoside **detergent**;
laundry detergent alkylglycoside alkanediol
alkoxylate
- IT **Shampoos**
(containing alkylglycosides and hexadecanediol ethoxylate sulfate
salt, with mildness to skin)
- IT Glycols, compounds
RL: USES (Uses)
(alkoxylated, **detergents** containing alkylglycosides and,
with mildness to skin)
- IT Glycosides
RL: USES (Uses)
(alkyl, **detergents**, containing alkanediols alkoxylates,
with mildness to skin)
- IT **Detergents**
(dishwashing, containing alkylglycosides and alkylenediol
alkoxylates, with mildness to skin)
- IT **Detergents**
(**laundry**, containing alkylglycosides and alkylenediol
alkoxylates, with mildness to skin)
- IT 106246-53-1 106246-60-0 106246-61-1 106335-16-4 131279-03-3
RL: USES (Uses)
(**detergents** containing alkylglycosides and, with mildness
to skin)
- IT **106246-52-0**
RL: USES (Uses)
(**shampoo** containing alkylglycosides and, with mildness to
skin)
- L43 ANSWER 23 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1989:480392 Document No. 111:80392 Liquid **detergent**
compositions mild to skin and good low-temperature storability.
Deguchi, Katsuhiko; Tosaka, Masaki; Hayakawa, Yutaka; Kawano, Haruki
(Kao Corp., Japan). Jpn. Kokai Tokkyo Koho JP 01040598 A2 19890210
Heisei, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1987-196640 19870806.
- IT **110122-28-6**
RL: USES (Uses)
(**liquid dishwashing detergents**)

containing, fruit juice-scented, mild)
 RN 110122-28-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
 INDEX NAME)



● 3 Na

IC ICM C11D001-29
 ICS C11D003-382
 CC 46-6 (Surface Active Agents and Detergents)
 ST fruit flavored liq dishwashing detergent
 ; lemon flavored liq dishwashing
 detergent; amine oxide liq dishwashing
 detergent; anionic liq dishwashing
 detergent
 IT Apple juice
 Grape juice
 Grapefruit juice
 Lemon juice
 Lime juice
 Pineapple juice
 (liquid dishwashing detergents
 scented with, mild)
 IT Detergents
 (dishwashing, liquid, fruit juice-scented,
 mild)
 IT Amines, oxides
 RL: USES (Uses)
 (N-oxides, liquid dishwashing
 detergents containing, fruit juice-scented, mild)
 IT 1643-20-5, Lauryl dimethylamine oxide 9004-82-4 25322-68-3,
 Polyethylene glycol 25322-68-3D, Polyethylene glycol, alkyl ether,
 sulfate, sodium salt 31694-55-0 50586-59-9 51609-71-3
 53694-15-8 58205-99-5 73038-32-1 110122-28-6
 RL: USES (Uses)
 (liquid dishwashing detergents
 containing, fruit juice-scented, mild)
 L43 ANSWER 24 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1989:409292 Document No. 111:9292 Anionic surfactants
 containing polymerizable allyl group. Yokota, Kinya; Ichihara,
 Akinobu (Daiichi Kogyo Seiyaku Co., Ltd., Japan). Jpn. Kokai Tokkyo
 Koho JP 63214331 A2 19880907 Showa, 7 pp. (Japanese). CODEN:
 JKXXAF. APPLICATION: JP 1986-236655 19861003.
 IT 120693-01-8 120772-61-4
 RL: USES (Uses)
 (adhesives, water-resistant)

RN 120693-01-8 HCAPLUS
 CN Acetic acid ethenyl ester, polymer with (Z)- α -sulfo- ω -[1-
 [[(1-oxo-9-octadecenyl)oxy]methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-
 1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

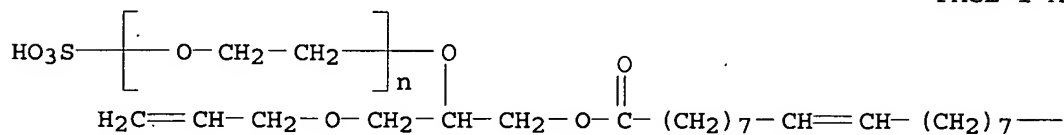
CM 1

CRN 120693-00-7

CMF (C2 H4 O)_n C24 H44 O7 S . H3 N

CCI PMS

PAGE 1-A



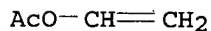
PAGE 1-B

— Me

CM 2

CRN 108-05-4

CMF C4 H6 O2



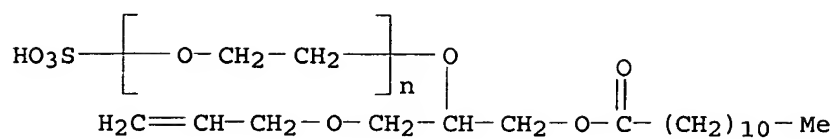
RN 120772-61-4 HCAPLUS
 CN Acetic acid ethenyl ester, polymer with α -sulfo- ω -[2-[(1-
 oxododecyl)oxy]-1-[(2-propenyloxy)methyl]ethoxy]poly(oxy-1,2-
 ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 120751-02-2

CMF (C2 H4 O)_n C18 H34 O7 S . H3 N

CCI PMS



CM 2

CRN 108-05-4

CMF C4 H6 O2



IT 120751-03-3

RL: USES (Uses)

(films, water-resistant)

RN 120751-03-3 HCAPLUS

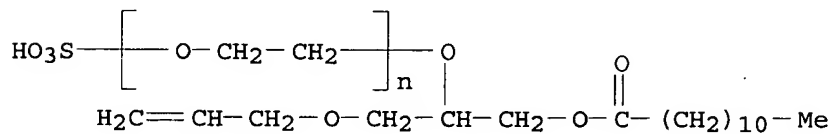
CN 2-Propenoic acid, methyl ester, polymer with α -sulfo- ω -
[1-[[[(1-oxododecyl)oxylmethyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 120751-02-2

CMF (C2 H4 O)_n C18 H34 O7 S . H3 N

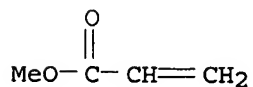
CCI PMS



CM 2

CRN 96-33-3

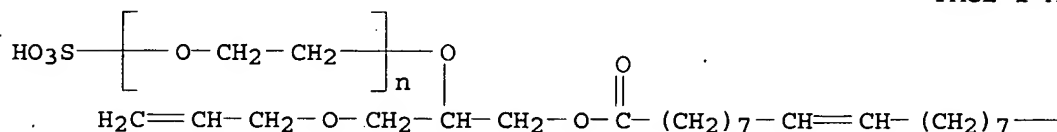
CMF C4 H6 O2



IT 120693-00-7P 120723-83-3DP, cottonseed oil fatty acid esters 120751-02-2P 121015-85-8DP, tallow fatty acid esters
 RL: TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (surfactants, manufacture of, for dispersants and emulsifiers and hydrophilic textile finishes and water-resistant adhesives and films)

RN 120693-00-7 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[1-[[[1-oxo-9-octadecenyl)oxy)methyl]-2-(2-propenyloxy)ethoxy]-, ammonium salt, (Z)- (9CI) (CA INDEX NAME)

PAGE 1-A



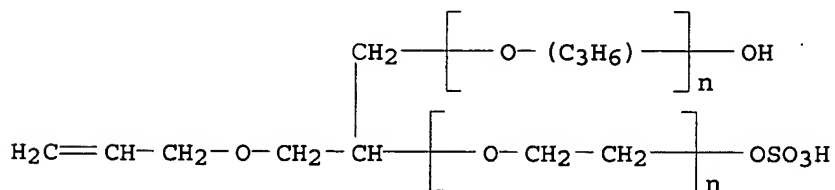
PAGE 1-B

— Me

RN 120723-83-3 HCAPLUS
 CN Ethanol, 2-amino-, compd. with α -[2-hydroxy-3-(2-propenyloxy)propyl]- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with α -sulfo- ω -hydroxypoly(oxy-1,2-ethanediyl) (1:1:1) (9CI) (CA INDEX NAME)

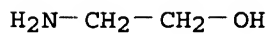
CM 1

CRN 120723-82-2
 CMF (C3 H6 O)_n (C2 H4 O)_n C6 H12 O6 S
 CCI IDS, PMS

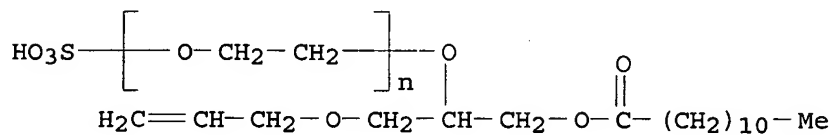


CM 2

CRN 141-43-5
CMF C2 H7 N O



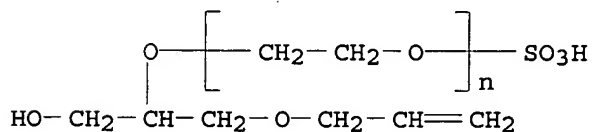
RN 120751-02-2 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[1-[[1-(oxododecyl)oxy)methyl]-2-(2-propenyloxy)ethoxy]-, ammonium salt (9CI) (CA INDEX NAME)



RN 121015-85-8 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-(2-propenyloxy)propyl] ether, ether with α -sulfo- ω -hydroxypoly(oxy-1,2-ethanediyl) (1:1), ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 177072-60-5
CMF (C2 H4 O)_n C6 H12 O6 S
CCI PMS

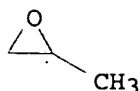


CM 2

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)_x
CCI PMS

CM 3

CRN 75-56-9
CMF C3 H6 O



CM 4

CRN 75-21-8

CMF C2 H4 O



IC ICM B01F017-42
ICS C07C143-11; C11D001-28

CC 46-3 (Surface Active Agents and Detergents)

ST allyl alkoxyate sulfate anionic **surfactant**;
dispersant allyl alkoxyate sulfate; **emulsifier**
allyl alkoxyate sulfate; hydrophilic finish allyl alkoxyate
sulfate; textile hydrophilic finish; water resistant adhesive allyl
alkoxyate; film allyl alkoxyate water resistant

IT Carbon black, uses and miscellaneous
RL: USES (Uses)
(**dispersants** for, allyl group-containing alkoxyate sulfate
esters as)

IT Kerosine
RL: USES (Uses)
(**emulsifiers** for, allyl group containing alkoxyate sulfate
esters as)

IT Polypropene fibers, uses and miscellaneous
RL: USES (Uses)
(hydrophilic finishes for, allyl group-containing alkoxyate sulfate
esters as **washfast**)

IT **Surfactants**
(anionic, allyl group-containing alkoxyate sulfate esters, manufacture
of, for **dispersants** and hydrophilic textile finishes
and water-resistant adhesives and films)

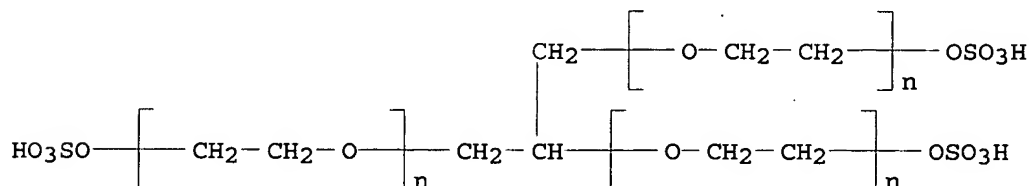
IT Fatty acids, esters
RL: USES (Uses)
(cottonseed-oil, esters, with allyl group-containing alkoxyate
sulfates, **surfactants**, manufacture of, for
emulsifiers and **dispersants** and hydrophilic
textile finishes and water-resistant adhesives and films)

IT Fatty acids, esters
RL: USES (Uses)
(esters, with allylglycidyl ether, alkoxyated, sulfates,
surfactants, manufacture of, for **dispersants** and
emulsifiers and hydrophilic textile finishes and
water-resistant adhesives and films)

IT Fatty acids, esters
RL: USES (Uses)
(tallow, esters, with allyl group-containing alkoxyate sulfates,
surfactants, manufacture of, for **emulsifiers** and
dispersants and hydrophilic textile finishes and
water-resistant adhesives and films)

IT 108-05-4D, Acetic acid ethenyl ester, polymers with allyl

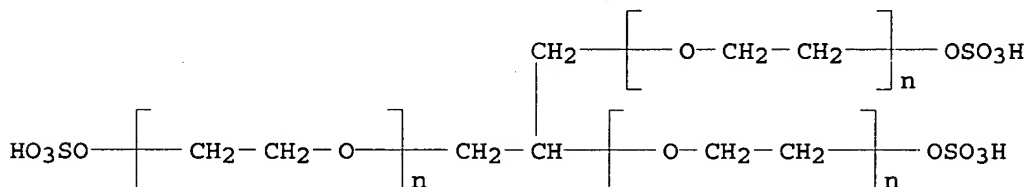
- group-containing alkoxyate sulfate esters 120693-01-8
120772-61-4
RL: USES (Uses)
(adhesives, water-resistant)
- IT 96-33-3D, polymers with allyl group-containing alkoxyate sulfate esters
120751-03-3
RL: USES (Uses)
(films, water-resistant)
- IT 120693-00-7P 120723-83-3DP, cottonseed oil fatty
acid esters 120751-02-2P 121015-73-4P 121015-74-5P
121015-85-8DP, tallow fatty acid esters
RL: TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)
(**surfactants**, manufacture of, for **dispersants** and
emulsifiers and hydrophilic textile finishes and
water-resistant adhesives and films)
- L43 ANSWER 25 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1988:457104 Document No. 109:57104 Viscosity-lowering agents for
high-solids anionic **surfactant** solutions and slurries.
Furugaki, Hisakazu; Miyamoto, Shigeyuki; Kusumi, Tomokatsu;
Iwahashi, Masaaki; Kasai, Hisashi (Kao Corp., Japan). Jpn. Kokai
Tokkyo Koho JP 63008474 A2 19880114 Showa, 8 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1986-151183 19860627.
- IT 110122-28-6
RL: USES (Uses)
(viscosity-lowering agents, for concentrated aqueous anionic
surfactant compns.)
- RN 110122-28-6 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
propanetriyltris[ω -(sulfoxy)-, trisodium salt (9CI) (CA
INDEX NAME)



● 3 Na

- IC ICM C09K003-00
ICS B01F017-42; C11D001-29
- CC 46-4 (Surface Active Agents and **Detergents**)
- ST anionic **surfactant** soln viscosity lowering;
polyoxyethylene ether sulfate viscosity lowering; neopentyl glycol
alkoxyate sulfate soln; polyhydric alc alkoxyate sulfate soln; liq
detergent concd viscosity lowering; thinning additive concd
liq **detergent**
- IT Viscosity
(of concentrated aqueous anionic **surfactant** solns. and slurries,
lowering of, polyol alkoxyate sulfate salt additives for)
- IT **Surfactants**
(anionic, high-solids solns. and slurries, viscosity-lowering

- agents for, polyol alkoxy sulfate salts as)
- IT 25154-52-3D, Nonylphenol, alkoxyates, sulfonated, sodium salt
25322-68-3D, Polyethylene glycol, alkyl ether sulfate sodium salt
RL: TEM (Technical or engineered material use); USES (Uses)
(**surfactants**, viscosity-lowering agents for concentrated aqueous compns. of)
- IT 110122-28-6 110122-29-7 110122-30-0 110122-67-3
RL: USES (Uses)
(viscosity-lowering agents, for concentrated aqueous anionic **surfactant** compns.)
- L43 ANSWER 26 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1988:206728 Document No. 108:206728 **Detergent** compositions containing abrasives. Deguchi, Katsuhiko; Saijo, Hiroyuki (Kao Corp., Japan). Jpn. Kokai Tokkyo Koho JP 63017999 A2 19880125 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-161197 19860709.
- IT 114464-79-8
RL: USES (Uses)
(**detergents, liquid, dishwashing**, containing abrasives, mild)
- RN 114464-79-8 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-propanetriyltris[ω -(sulfooxy)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

- IC ICM C11D010-02
ICI C11D010-02, C11D001-29, C11D001-22, C11D001-14, C11D001-75, C11D001-52, C11D003-14, C11D001-722
- CC 46-6 (Surface Active Agents and **Detergents**)
ST abrasive contg liq **detergent** mild; silica contg dishwashing **detergent** mild
- IT Amides, uses and miscellaneous
RL: USES (Uses)
(**detergents, liquid, dishwashing**, containing abrasives, mild)
- IT Abrasives
(silica, in **liquid dishwashing detergents**, mild)
- IT **Detergents**
(**dishwashing, liquid**, containing abrasives, storable, mild)
- IT Amines, oxides
RL: USES (Uses)
(N-oxides, **detergents, liquid, dishwashing**, containing abrasives, mild)

IT 7631-86-9, uses and miscellaneous

RL: USES (Uses)

(abrasives, liquid dishwashing
detergents containing, mild)

IT 111-42-2D, coco fatty acid amides 1643-20-5, Lauryl dimethylamine
oxide 9004-82-4 9038-78-2 25155-30-0 25322-68-3 25322-69-4
31694-55-0, Polyethylene glycol glycerol ether 50586-59-9
78067-35-3 114464-79-8 114465-08-6

RL: USES (Uses)

(detergents, liquid, dishwashing,
containing abrasives, mild)

L43 ANSWER 27 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1987:578710 Document No. 107:178710 Liquid detergent
compositions. Deguchi, Katsuhiko; Ikeda, Hiroshi (Kao Corp.,
Japan). Jpn. Kokai Tokkyo Koho JP 62107000 A2 19870518 Showa, 8 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-245787 19851101.

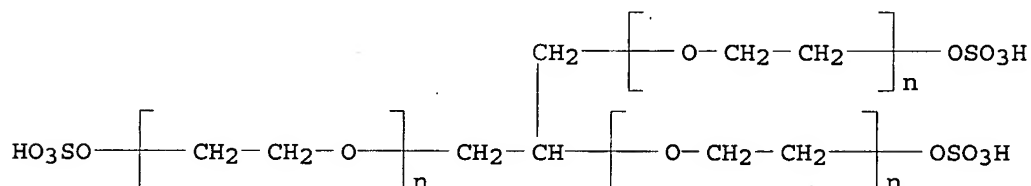
IT 110122-28-6 110159-31-4

RL: USES (Uses)

(detergents, liquid, dishwashing,
containing amine oxides with good foaming and rinsing
properties)

RN 110122-28-6 HCAPLUS

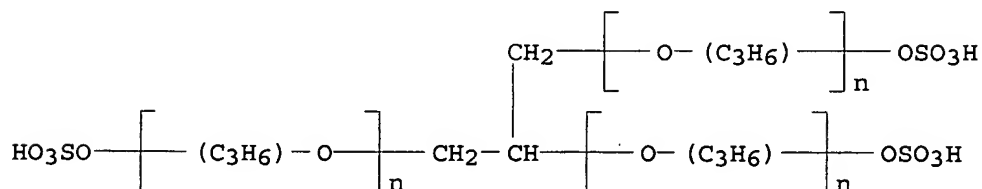
CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
INDEX NAME)



●3 Na

RN 110159-31-4 HCAPLUS

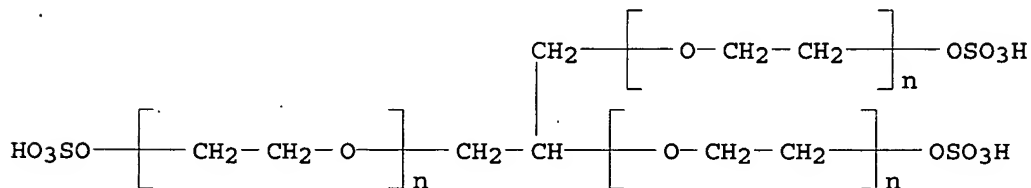
CN Poly[oxy(methyl-1,2-ethanediyl)], $\alpha, \alpha', \alpha''$ -1,2,3-
propanetriyltris[ω -(sulfooxy)-, tripotassium salt (9CI) (CA
INDEX NAME)



●3 K

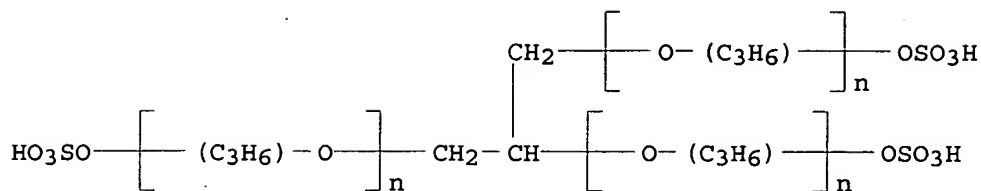
IC ICM C11D010-02
 ICS C11D017-08
 ICI C11D010-02, C11D001-29, C11D001-75, C11D003-37
 CC 46-6 (Surface Active Agents and Detergents)
 ST anionic dishwashing liq detergent;
 amine oxide dishwashing liq detergent
 IT Detergents
 (dishwashing, liquid, anionic, containing amine
 oxides, with good foaming and rinsing properties)
 IT Amines, oxides
 RL: USES (Uses)
 (tertiary, anionic dishwashing liquid
 detergents containing, with good foaming and rinsing
 properties)
 IT 1643-20-5, Dodecyldimethylamine oxide
 RL: USES (Uses)
 (anionic dishwashing liquid detergents
 containing, with good foaming and rinsing properties)
 IT 9004-82-4 51609-71-3 51609-74-6 110120-32-6
 110122-28-6 110122-31-1 110122-67-3 110122-68-4
 110159-31-4 110651-52-0 110651-53-1 110713-12-7
 110736-61-3 110742-45-5
 RL: USES (Uses)
 (detergents, liquid, dishwashing,
 containing amine oxides with good foaming and rinsing
 properties)

L43 ANSWER 28 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1987:498670 Document No. 107:98670 Liquid detergent
 composition. Deguchi, Katsuhiko; Ikeda, Hiroshi; Hayakawa, Yutaka
 (Kao Corp., Japan). Brit. UK Pat. Appl. GB 2181152 A1 19870415, 12
 pp. (English). CODEN: BAXXDU. APPLICATION: GB 1986-22036
 19860912. PRIORITY: JP 1985-211967 19850925.
 IT 110122-28-6 110159-31-4
 RL: USES (Uses)
 (stabilizers, for liquid detergents containing alkyl ether
 sulfates)
 RN 110122-28-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
 INDEX NAME)



● 3 Na

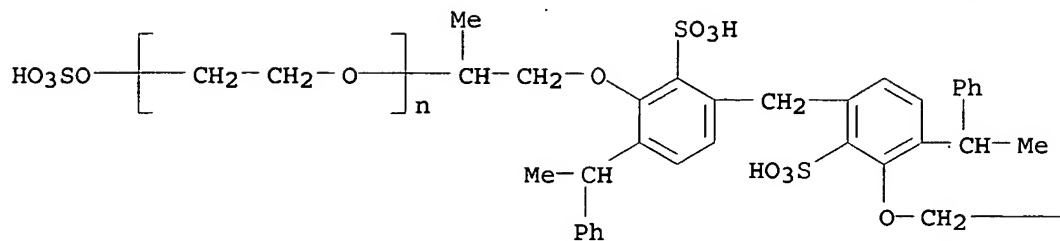
RN 110159-31-4 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)], $\alpha, \alpha', \alpha''$ -1,2,3-
 propanetriyltris[ω -(sulfooxy)-, tripotassium salt (9CI) (CA
 INDEX NAME)



● 3 K

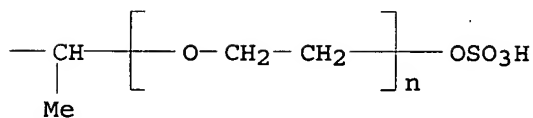
- IC ICM C11D001-29
 CC 46-6 (Surface Active Agents and Detergents)
 ST sulfate alkoxylate **detergent** liq stability; ethoxylate
 sulfate **detergent** liq stability; polyoxyalkylene sulfate
detergent liq; polyoxyethylene sulfate **detergent**
 liq
 IT **Detergents**
 (liquid, alkyl ether sulfate-containing, gelling inhibitors for)
 IT 9004-82-4 25322-68-3D, monoalkyl ethers, sulfated, sodium salts
 RL: USES (Uses)
 (liquid **detergent** compns. containing, gelling inhibitors for)
 IT 110122-67-3
 RL: USES (Uses)
 (stabilizers, for liquid **detergent** compns. containing alkyl
 ether sulfates)
 IT 51609-71-3 51609-74-6 110120-31-5 110120-32-6
 110122-28-6 110122-29-7 110122-30-0 110122-31-1
 110122-68-4 110122-69-5 110159-31-4 110159-32-5
 RL: USES (Uses)
 (stabilizers, for liquid **detergents** containing alkyl ether
 sulfates)
 L43 ANSWER 29 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1987:121336 Document No. 106:121336 Salts used for dyeing. Niwa,
 Toshio; Nagashima, Susumu (Mitsubishi Chemical Industries Co., Ltd.,
 Japan). Jpn. Kokai Tokkyo Koho JP 60233158 A2 19851119 Showa, 5 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1984-89052 19840502.
 IT 107227-37-2
 RL: USES (Uses)
 (basic dye salt with, for dyeing polyester-wool blends)
 RN 107227-37-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -methylenebis[[6-(1-
 phenylethyl)-2-sulfo-3,1-phenylene]oxy(1-methyl-2,1-
 ethanediyl)]bis[ω -(sulfooxy)-, diammonium disodium salt (9CI)
 (CA INDEX NAME)

PAGE 1-A

 $\bullet 2 \text{ NH}_3$

●₂ Na

PAGE 1-B

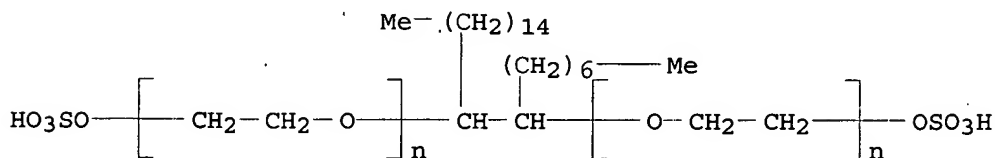


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IC      ICM C09B069-06
CC      40-6 (Textiles and Fibers)
        Section cross-reference(s): 46
ST      dyeing blended yarn; anionic surfactant basic dye salt;
        acrylic fiber wool blend dyeing
IT      Dyeing
        (of fiber blends, anionic surfactant basic dye salts
        for)
IT      Surfactants
        (anionic, alkoxylated, salts of, with basic dyes)
IT      Dyes
        (basic, salts with anionic surfactants, for dyeing
        fiber blends)
IT      107227-37-2
        RL: USES (Uses)
        (basic dye salt with, for dyeing polyester-wool blends)
IT      2666-17-3, C.I. Acid Blue 41
        RL: USES (Uses)
        (dyeing of acrylic-wool blend with mixture of basic dye anionic
        surfactant salt and)

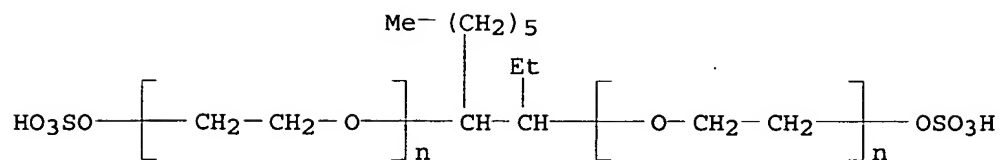
```

- IT 12239-06-4
RL: USES (Uses)
(dyeing of polyester-wool blend with mixture of basic dye anionic surfactant salt and)
- IT 2787-91-9, C.I. Basic Blue 3
RL: USES (Uses)
(salts with anionic surfactants, for dyeing acrylic fiber-wool blends)
- IT 3943-82-6
RL: USES (Uses)
(salts with anionic surfactants, for dyeing acrylic fibers)
- IT 4208-80-4, C.I. Basic Yellow 11
RL: USES (Uses)
(salts with anionic surfactants, for dyeing fiber blends)
- IT 14097-03-1, C.I. Basic Red 18
RL: USES (Uses)
(salts with anionic surfactants, for dyeing polyester-wool blends)
- L43 ANSWER 30 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1987:52150 Document No. 106:52150 **Surfactants**. Kitano, Kyozo; Tano, Tetsuo; Ando, Hideo; Sekiguchi, Shizuo (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 61166894 A2 19860728 Showa, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-7246 19850118.
- IT 106246-50-8 106246-51-9 106246-52-0
106246-54-2 106246-57-5 106246-59-7
106355-94-6
RL: TEM (Technical or engineered material use); USES (Uses)
(surfactants, mild, for detergents and shampoos)
- RN 106246-50-8. HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α' -(1-heptyl-2-pentadecyl-1,2-ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



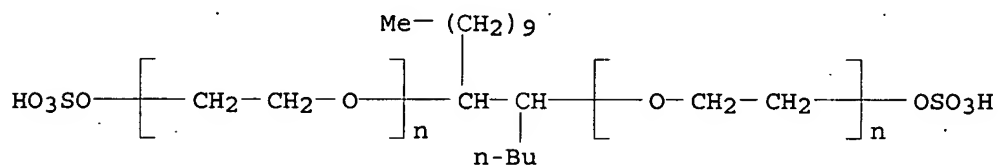
● 2 Na

- RN 106246-51-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α' -(1-ethyl-2-hexyl-1,2-ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

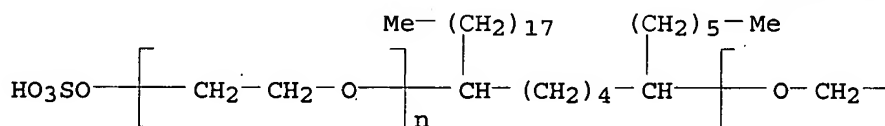
RN 106246-52-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -(1-butyl-2-decyl-1,2-ethanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

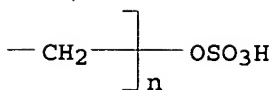
RN 106246-54-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -(1-hexyl-6-octadecyl-1,6-hexanediyl)bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 2 Na

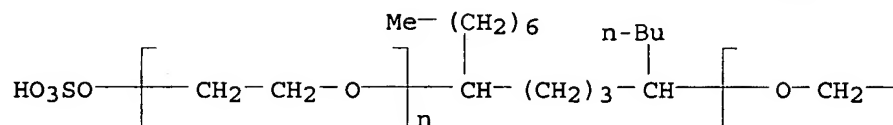
PAGE 1-B



RN 106246-57-5 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -(1-butyl-5-heptyl-1,5-

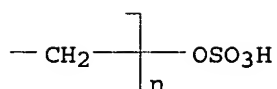
pentanediyl)bis[ω-(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

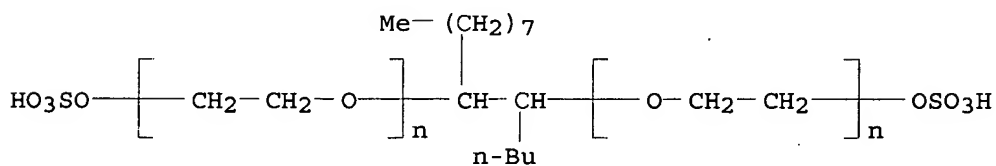


●2 Na

PAGE 1-B

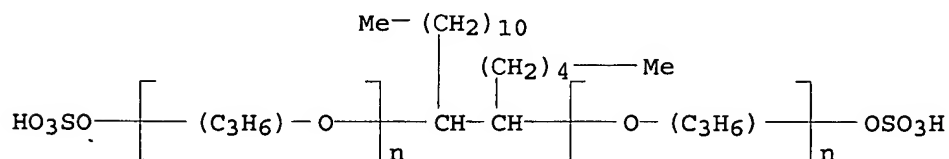


RN 106246-59-7 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α'-(1-butyl-2-octyl-1,2-ethanediyl)bis[ω-(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



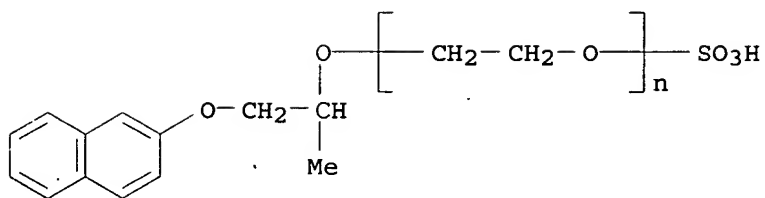
●2 Na

RN 106355-94-6 HCAPLUS
CN Poly[oxy(methyl-1,2-ethanediyl)], α,α'-(1-pentyl-2-undecyl-1,2-ethanediyl)bis[ω-(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



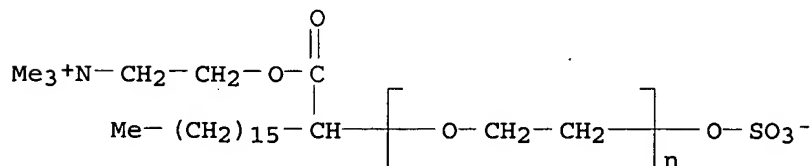
●2 Na

IC ICM C11D001-72
ICS C11D001-29
ICA C07C043-11; C07C141-02
CC 46-3 (Surface Active Agents and Detergents)
ST diol ethoxylate **surfactant detergent**;
shampoo diol ethoxylate
IT Alcohols, compounds
RL: USES (Uses)
(alkanediols, ethoxylates, **surfactants**, for
detergents and shampoos)
IT **Shampoos**
(nonionic and anionic **surfactants** for, alkanediol
ethoxylate derivs. as mild)
IT **Surfactants**
(anionic, alkanediol ethoxylate sulfate salts)
IT **Detergents**
(**cleaning** compns., nonionic and anionic
surfactants for, alkanediol ethoxylate derivs. as mild)
IT **Detergents**
(**dishwashing, liquid**, nonionic and anionic
surfactants for, alkanediol ethoxylate derivs. as mild)
IT **Detergents**
(**laundry**, nonionic and anionic **surfactants**
for, alkanediol ethoxylate derivs. as mild)
IT **Surfactants**
(nonionic, alkanediol ethoxylates, mild)
IT 106246-48-4 106246-49-5 106246-50-8 106246-51-9
106246-52-0 106246-53-1 106246-54-2
106246-55-3 106246-56-4 106246-57-5 106246-58-6
106246-59-7 106246-60-0 106246-61-1 106335-16-4
106335-17-5 106355-94-6
RL: TEM (Technical or engineered material use); USES (Uses)
(**surfactants**, mild, for **detergents** and
shampoos)
L43 ANSWER 31 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1985:489034 Document No. 103:89034 Basic dye compositions. (Mitsubishi
Chemical Industries Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
60101155 A2 19850605 Showa, 4 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1983-208175 19831105.
IT 97756-47-3
RL: USES (Uses)
(**surfactants**, in dyeing of modified polyester and
acrylic fibers with basic dyes)
RN 97756-47-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[1-methyl-2-(2-
naphthalenyloxy)ethoxy]-, ammonium salt. (9CI) (CA INDEX NAME)



● NH₃

IC ICM C09B067-34
 CC 40-6 (Textiles)
 ST polyoxyalkylene anionic **surfactant** basic dye; acrylic
 fiber dyeing basic dye; wool acrylic fiber blend dyeing
 IT Dyeing
 (of modified polyester and acrylic fibers, with basic dyes,
 polyalkylene glycol naphthyl ether sulfate salt anionic
surfactants in)
 IT **Surfactants**
 (anionic, polyalkylene glycol naphthyl ether sulfate salts, in
 dyeing of modified polyester and acrylic fibers with basic dyes)
 IT 97756-47-3 97794-24-6 97803-44-6
 RL: USES (Uses)
 (**surfactants**, in dyeing of modified polyester and
 acrylic fibers with basic dyes)
 L43 ANSWER 32 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1983:200253 Document No. 98:200253 **Detergent** composition.
 Wentler, George Edward; Mcgrady, Joseph; Gosselink, Eugene Paul;
 Cilley, William Ajalon (Procter and Gamble Co., USA). Braz. Pedido
 PI BR 8101686 A 19821026, 52 pp. (Portuguese). CODEN: BPXXDX.
 APPLICATION: BR 1981-1686 19810320.
 IT **79395-39-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 79395-39-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[1-[[2-
 (trimethylammonio)ethoxy]carbonyl]heptadecyl]- ω -(sulfooxy)-,
 inner salt (9CI) (CA INDEX NAME)



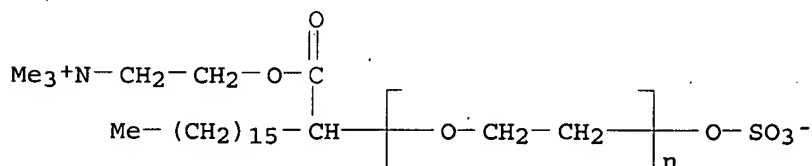
RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (**surfactants**, biodegradable, prepn. of

IC C11D001-88
 CC 46-3 (Surface Active Agents and **Detergents**)
 ST biodegradable zwitterionic **surfactant**

- IT **Surfactants**
(biodegradable, zwitterionic, preparation and properties of)
- IT **79395-39-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
- IT 79363-72-7
RL: USES (Uses)
(surfactant, biodegradability of)
- IT 85756-86-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(surfactants, biodegradable, preparation and properties of)
- IT **79395-39-4P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(surfactants, biodegradable, preparation of)

L43 ANSWER 33 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1981:589004 Document No. 95:189004 Zwitterionic **surfactant**
compounds and **detergent** compositions containing them.
Wentler, George Edward; McGrady, Joseph; Gosselink, Eugene Paul;
Cilley, William Ajalon (Procter and Gamble Co., USA). Eur. Pat.
Appl. EP 32837 19810729, 36 pp. (English). CODEN: EPXXDW.
APPLICATION: EP 1981-300226 19810120.

- IT **79395-39-4P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of biodegradable, for **laundry**
detergents)
- RN 79395-39-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -[1-[[2-(trimethylammonio)ethoxy]carbonyl]heptadecyl]- ω -(sulfooxy)-,
inner salt (9CI) (CA INDEX NAME)



- IC C11D001-88
CC 46-5 (Surface Active Agents and **Detergents**)
ST ampholyte **detergent** biodegrdn; **laundry**
detergent ampholyte; ammonio compd **detergent**
biodegrdn; sulfate ammonio **detergent** biodegrdn; sulfonate
ammonio **detergent** biodegrdn
- IT Biodegradable materials
(ammonio compds. for **laundry detergents**)
- IT Amphoteric substances
(ammonio compds., biodegradable, for **laundry**
detergents)
- IT **Detergents**
(biodegradable, amphoteric, for **laundering**)
- IT 79363-72-7
RL: USES (Uses)
(**detergents** containing biodegradable, for
laundering)
- IT 79374-23-5P **79395-39-4P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of biodegradable, for laundry
detergents)

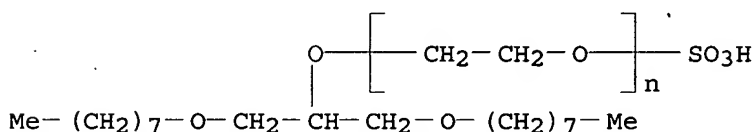
L43 ANSWER 34 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1981:177090 Document No. 94:177090 **Rinsing**-softening agent.
May, Adolf; Buecking, Hans Walter; Keil, Karlheinz (Hoechst A.-G.,
Fed. Rep. Ger.). Ger. Offen. DE 2930111 19810212, 8 pp. (German).
CODEN: GWXXBX. APPLICATION: DE 1979-2930111 19790725.

IT 77173-88-7

RL: USES (Uses)
(fabric softeners, for reduced hydrophobicity)

RN 77173-88-7 HCAPLUS

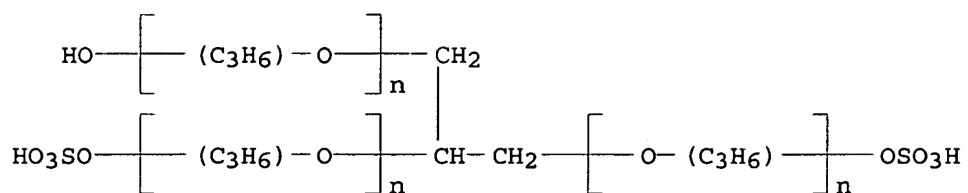
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[2-(octyloxy)-1-
[(octyloxy)methyl]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

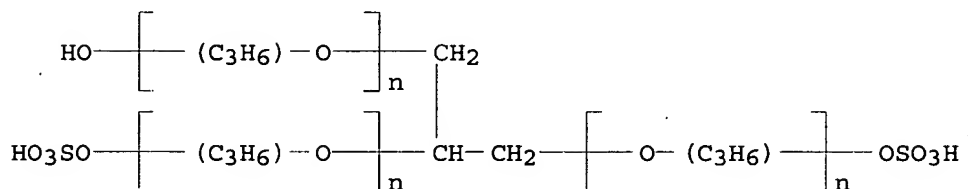
IC D06M013-46; D06M013-18; C11D003-26
CC 46-4 (Surface Active Agents and **Detergents**)
ST softener textile **laundering**; glycerol ether softener
fabric; quaternary ammonium softener fabric; sulfoalkyl ether
glycerol softener; wettability textile softener
IT Softening agents
(quaternary ammonium compds. and anionic glycerol ethers, for
textiles in **laundering**)
IT 67989-72-4 77173-88-7
RL: USES (Uses)
(fabric softeners, for reduced hydrophobicity)

L43 ANSWER 35 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1979:492938 Document No. 91:92938 **Scouring** agents for
textiles. Miyanaga, Sadao; Kagamibashi, Masato; Sakuma, Kohei (Lion
Fat and Oil Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 54038984
19790324 Showa, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1977-103500 19770829.
IT 70979-40-7 71002-79-4
RL: USES (Uses)
(**scouring** agents, for cotton fabrics)
RN 70979-40-7 HCAPLUS
CN Poly[oxy(methyl-1,2-ethanediyl)], ω -hydroxy- ω' , ω'' -
bis(sulfoxy)- α , α' , α'' -1,2,3-propanetriyltris-,
dipotassium salt (9CI) (CA INDEX NAME)



● 2 K

RN 71002-79-4 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)], ω-hydroxy-ω',ω''-bis(sulfooxy)-α,α',α''-1,2,3-propanetriyltris-, disodium salt (9CI) (CA INDEX NAME)

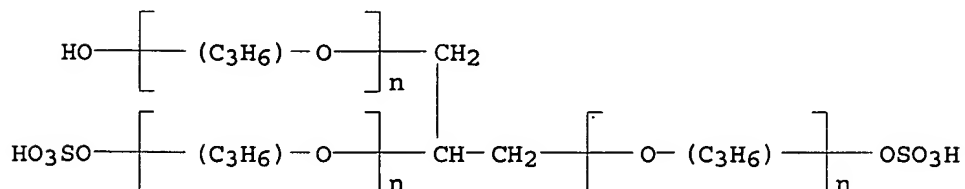


● 2 Na

IT 71002-81-8 71002-82-9
 RL: USES (Uses)
 (scouring composition containing, permeability of)
 RN 71002-81-8 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris-, compd. with ω-hydroxy-ω',ω''-bis(sulfooxy)-α,α',α''-1,2,3-propanetriyltris[poly[oxy(methyl-1,2-ethanediyl)]] (2:1) (9CI) (CA INDEX NAME)

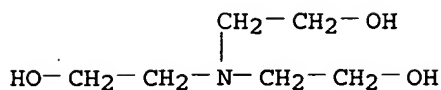
CM 1

CRN 71002-80-7
 CMF (C3 H6 O)n (C3 H6 O)n (C3 H6 O)n C3 H8 O9 S2
 CCI IDS, PMS

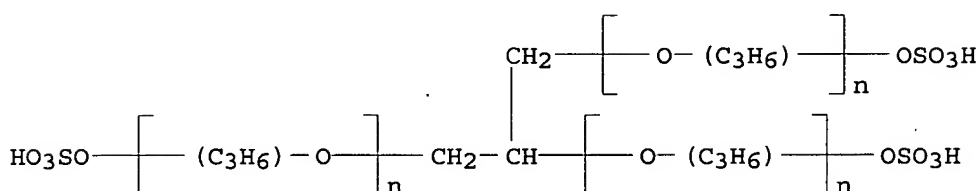


CM 2

CRN 102-71-6
CMF C6 H15 N O3



RN 71002-82-9 HCAPLUS
CN Poly[oxy(methyl-1,2-ethanediyl)], α,α',α'' -1,2,3-
propanetriyltris[ω -(sulfooxy)-, trisodium salt (9CI) (CA
INDEX NAME)



●3 Na

IC D06L001-12
CC 39-9 (Textiles)
ST cotton fabric rapid **scouring**; polyoxypropylene ester
scouring agent; sodium dodecanoate textile **scouring**
; foamless rapid **scouring** cotton
IT Castor oil
RL: USES (Uses)
(sulfated, **scouring** composition containing, for **scouring**
cotton fabrics by rapid process)
IT Textiles
(cotton, **scouring** of, by rapid process, with reduced
foaming, **agents** for)
IT 70979-40-7 70979-41-8 71002-79-4
RL: USES (Uses)
(**scouring** agents, for cotton fabrics)
IT 629-25-4 1002-62-6 13150-00-0
RL: USES (Uses)
(**scouring** composition containing, for **scouring** cotton
fabrics by rapid process)
IT 151-21-3, uses and miscellaneous 13257-34-6 71002-81-8
71002-82-9
RL: USES (Uses)
(**scouring** composition containing, permeability of)

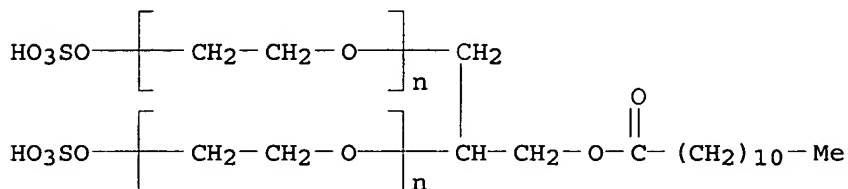
L43 ANSWER 36 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
1977:92256 Document No. 86:92256 Monoglyceride polyoxyalkylene ether
sulfates. Nakase, Toshiaki; Hidaka, Toru (Riken Vitamin Oil Co.,
Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 51128912 19761110 Showa, 6
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1975-52521
19750502.
IT 61987-21-1

RL: USES (Uses)

(detergents, with skin compatibility)

RN 61987-21-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α, α' -[1-[[[1-oxododecyl)oxy]methyl]-1,2-ethanediyl]bis[ω -(sulfooxy)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

IC C07C141-08

CC 46-3 (Surface Active Agents and Detergents)

ST monoglyceride ethoxylate sulfate detergent; glyceride monoethoxylate sulfate

IT Detergents

(sulfates of ethoxylated monoglycerides, with skin compatibility)

IT Glycerides, uses and miscellaneous

RL: USES (Uses)

(mono-, alkoxylated, sulfates, as detergents with skin compatibility)

IT 75-21-8D, reaction products with fatty acid monoglycerides, sulfates, salts 61987-21-1

RL: USES (Uses)

(detergents, with skin compatibility)

L43 ANSWER 37 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1975:462423 Document No. 83:62423 Long chain ether alcohol sulfates from propylene oxide and 1,2-butylene oxide. Weil, James K.; Stirton, Alexander J. (United States Dept. of Agriculture). U.S. US 3843706 19741022, 7 pp. (English). CODEN: USXXAM. APPLICATION: US 1971-203867 19711201.

IT 14858-46-9 14858-48-1 14858-51-6

14858-57-2 14858-59-4 14858-64-1

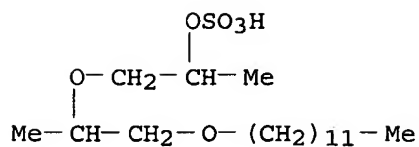
14858-66-3 30862-56-7

RL: USES (Uses)

(detergents, biodegradable)

RN 14858-46-9 HCAPLUS

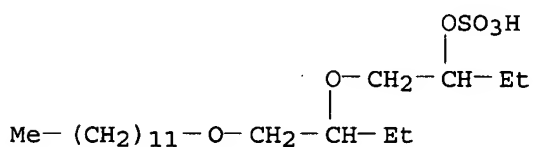
CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-48-1 HCAPLUS

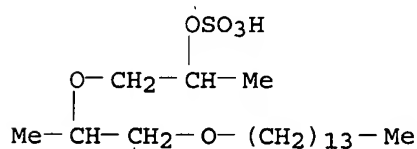
CN 2-Butanol, 1-[1-[(dodecyloxy)methyl]propoxy]-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-51-6 HCAPLUS

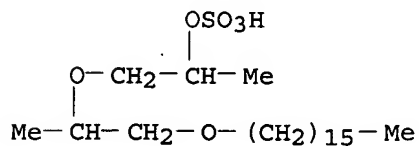
CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

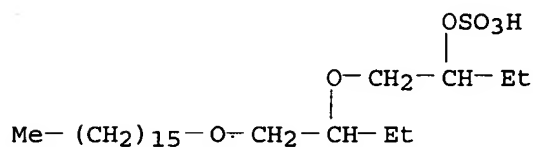
RN 14858-57-2 HCAPLUS

CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



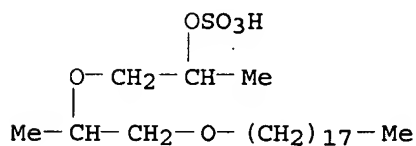
● Na

RN 14858-59-4 HCAPLUS
 CN 2-Butanol, 1-[1-[(hexadecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



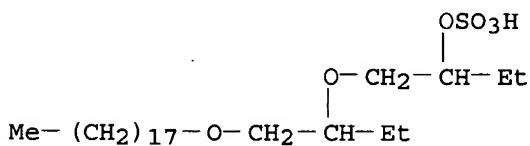
● Na

RN 14858-64-1 HCAPLUS
 CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



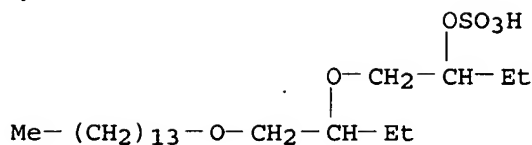
● Na

RN 14858-66-3 HCAPLUS
 CN 2-Butanol, 1-[1-[(octadecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

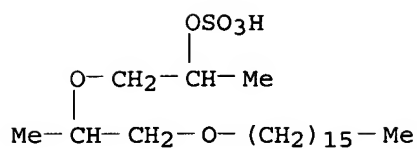
RN 30862-56-7 HCAPLUS
 CN 2-Butanol, 1-[1-[(tetradecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC C07C
 INCL 260458000
 CC 46-3 (Surface Active Agents and Detergents)
 Section cross-reference(s): 23
 ST butoxylated alc sulfate **detergent**; propoxylated alc
 sulfate **detergent**; **detergent** alkoxyated alc
 sulfate; biodegradable **detergent** oxaalkyl sulfate
 IT Biodegradable materials
 (**detergents**, sulfates of butyoxylated and propoxylated
 alcs.)
 IT **Detergents**
 (sulfates of butyoxlated and propylated alcs.)
 IT 75-56-9D, Oxirane, methyl-, reaction products with alcs., sulfates
 112-53-8D, 1-Dodecanol, reaction products with propylene oxide and
 butylene oxide, sulfates 112-72-1D, 1-Tetradecanol, reaction
 products with propylene oxide and butylene oxide, sulfates
 112-92-5D, 1-Octadecanol, reaction products with propylene oxide and
 butylene oxide, sulfates 14858-45-8 **14858-46-9**
 14858-47-0 **14858-48-1** 14858-50-5 **14858-51-6**
 14858-52-7 14858-56-1 **14858-57-2** 14858-58-3
14858-59-4 14858-63-0 **14858-64-1** 14858-65-2
14858-66-3 **30862-56-7** 36653-82-4D,
 1-Hexadecanol, reaction products with propylene oxide and butylene
 oxide, sulfates
 RL: USES (Uses)
 (**detergents**, biodegradable)

L43 ANSWER 38 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1971:14392 Document No. 74:14392 Synthesis and surface active
 properties of long-chain ether alcohol sulfates R(OCH₂CHR')iOSO₃Na.
 Weil, James K.; Stirton, Alexander J.; Wrigley, A. N. (East. Reg.
 Res. Lab., U. S. Dep. Agric., Philadelphia, PA, USA). Chim. Phys.
 Appl. Prat. Ag. Surface, C. R. Congr. Int. Deterg., 5th, Meeting
 Date 1968, Volume 1, 45-50. Ediciones Unidas, S. A.: Barcelona,
 Spain. (English) 1969. CODEN: 22LKAT.
 IT **14858-57-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 14858-57-2 HCAPLUS
 CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

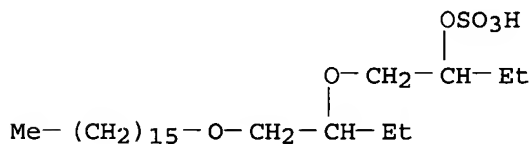
IT 14858-59-4 14858-64-1 14858-66-3
30862-56-7

RL: USES (Uses)

(surface-active properties of)

RN 14858-59-4 HCAPLUS

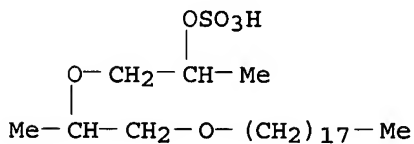
CN 2-Butanol, 1-[1-[(hexadecyloxy)methyl]propoxy]-, hydrogen sulfate,
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-64-1 HCAPLUS

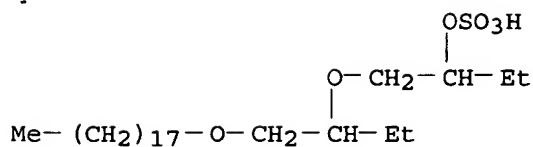
CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, hydrogen sulfate,
sodium salt (9CI) (CA INDEX NAME)



● Na

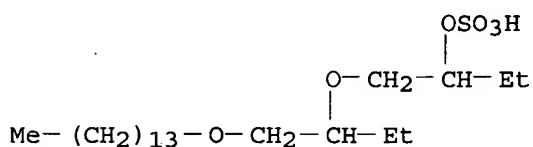
RN 14858-66-3 HCAPLUS

CN 2-Butanol, 1-[1-[(octadecyloxy)methyl]propoxy]-, hydrogen sulfate,
sodium salt (9CI) (CA INDEX NAME)



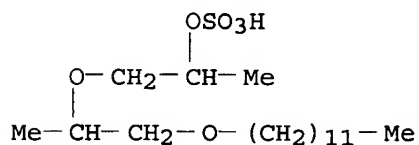
● Na

RN 30862-56-7 HCAPLUS
 CN 2-Butanol, 1-[1-[(tetradecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



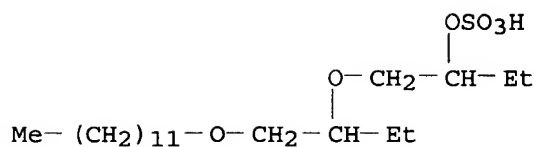
● Na

IT 14858-46-9 14858-48-1 14858-51-6
 RL: PRP (Properties)
 (surface-active properties of)
 RN 14858-46-9 HCAPLUS
 CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



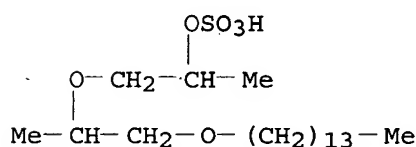
● Na

RN 14858-48-1 HCAPLUS
 CN 2-Butanol, 1-[1-[(dodecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-51-6 HCAPLUS
 CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

CC 46 (Surface Active Agents and Detergents)
 IT **Soaps**
 RL: USES (Uses)
 (calcium, **dispersants** for, ether alc. sulfates as)
 IT Dispersing agents
 (ether alc. sulfates, for lime **soaps**)
 IT **Surfactants**, properties
 (sulfated, ether alcs., chain length effect on)
 IT **14858-57-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 IT 7664-93-9D, Sulfuric acid, alkoxyalkyl esters 14858-58-3
 14858-59-4 14858-61-8 14858-62-9 14858-63-0
 14858-64-1 14858-65-2 **14858-66-3** 15826-16-1
 26482-91-7 **30862-56-7**
 RL: USES (Uses)
 (surface-active properties of)
 IT 151-21-3, properties 1120-01-0 1120-04-3 1191-50-0 3088-31-1
 3694-74-4 14858-45-8 **14858-46-9** 14858-47-0
14858-48-1 14858-50-5 **14858-51-6** 14858-52-7
 14858-54-9 14858-55-0 14858-56-1
 RL: PRP (Properties)
 (surface-active properties of)

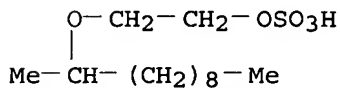
L43 ANSWER 39 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1971:4902 Document No. 74:4902 Sulfonates and sulfates of sec-alkyl ethyl ether: **detergents** prepared by the addition of substituted alcohols to 1-alkenes. Bakker, Pieter M.; Kortland, C. (K./Shell-Lab., Amsterdam, Neth.). Chim. Phys. Appl. Prat. Ag. Surface, C. R. Congr. Int. Deterg., 5th, Meeting Date 1968, Volume 1, 157-64. Ediciones Unidas, S. A.: Barcelona, Spain. (English) 1969. CODEN: 22LKAT.

LT 30714-90-0 30714-91-1 30714-93-3
30714-94-4 30724-46-0

RL: USES (Uses)
(surface active)

RN 30714-90-0 HCAPLUS

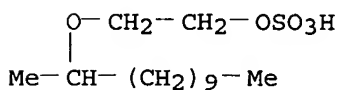
CN Ethanol, 2-[(1-methyldecyl)oxy]-, hydrogen sulfate sodium salt (8CI)
(CA INDEX NAME)



● Na

RN 30714-91-1 HCAPLUS

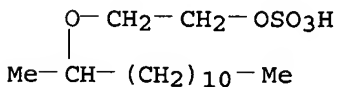
CN Ethanol, 2-[(1-methylundecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



● Na

RN 30714-93-3 HCAPLUS

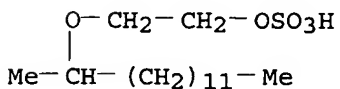
CN Ethanol, 2-[(1-methyldodecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



● Na

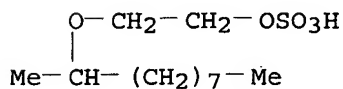
RN 30714-94-4 HCAPLUS

CN Ethanol, 2-[(1-methyltridecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



● Na

RN 30724-46-0 HCAPLUS
CN Ethanol, 2-[(1-methylnonyl)oxy]-, hydrogen sulfate sodium salt (8CI)
(CA INDEX NAME)

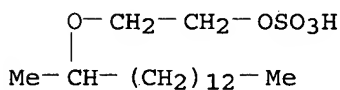


● Na

IT 30714-95-5 30714-97-7 30714-99-9

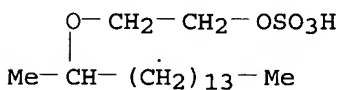
RL: USES (Uses)
(surface-active)

RN 30714-95-5 HCAPLUS
CN Ethanol, 2-[(1-methyltetradecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



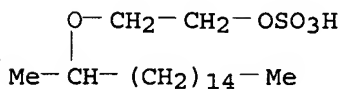
● Na

RN 30714-97-7 HCAPLUS
CN Ethanol, 2-[(1-methylpentadecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



● Na

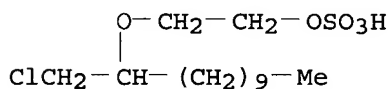
RN 30714-99-9 HCAPLUS
CN Ethanol, 2-[(1-methylhexadecyl)oxy]-, hydrogen sulfate sodium salt
(8CI) (CA INDEX NAME)



● Na

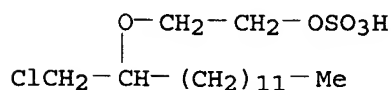
CC 46 (Surface Active Agents and Detergents)

ST alc alkene addn **surfactants**; alkene alc addn
surfactants; **surfactants** alc alkene addn
 IT **Detergents**, uses and miscellaneous
 (dishwashing, sec-alkyl ethyl ether sulfates and sulfonates)
 IT **Surfactants**, preparation
 (sulfated and sulfonated, sec-alkyl ethyl ether)
 IT 30714-90-0 30714-91-1 30714-93-3
 30714-94-4 30724-46-0
 RL: USES (Uses)
 (surface active)
 IT 64-17-5D, Ethyl alcohol, 2-sec-alkoxy, hydrogen sulfates sodium
 salts 594-45-6D, Ethanesulfonic acid, 2-sec-alkoxy derivs., sodium
 salts 30714-95-5 30714-97-7 30714-99-9
 30715-00-5 30715-01-6 30715-02-7 30715-03-8 30715-04-9
 30715-05-0 30715-06-1 30715-07-2
 RL: USES (Uses)
 (surface-active)
 L43 ANSWER 40 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1969:462493 Document No. 71:62493 Hydroxyalkyl ether substituted
 tertiary amines. Borstlap, Cornelis; Bakker, Pieter M. (Shell Oil
 Co.). U.S. US 3449432 19690610, 5 pp. (English). CODEN: USXXAM.
 APPLICATION: US 1966-548385 19660509.
 IT 16499-82-4 16499-84-6 16499-86-8
 RL: USES (Uses)
 (for **detergents**)
 RN 16499-82-4 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)undecyl]oxy]-, hydrogen sulfate sodium
 salt (8CI) (CA INDEX NAME)



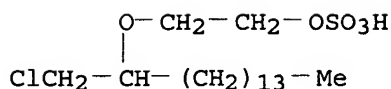
● Na

RN 16499-84-6 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)tridecyl]oxy]-, hydrogen sulfate sodium
 salt (8CI) (CA INDEX NAME)



● Na

RN 16499-86-8 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)pentadecyl]oxy]-, hydrogen sulfate
 sodium salt (8CI) (CA INDEX NAME)



● Na

INCL 260584000

CC 46 (Surface Active Agents and Detergents)

IT Detergents, preparation
((hydroxyalkoxy) tertiary amines)

IT Amines, oxides

RL: USES (Uses)

((hydroxyalkoxy), for detergents)

IT Amines, uses and miscellaneous

RL: USES (Uses)

((hydroxyalkoxy)tertiary, for detergents)

IT 16499-82-4 16499-83-5 16499-84-6 16499-85-7

16499-86-8 16499-87-9 20543-02-6 25542-91-0

25542-92-1 25542-93-2 25542-94-3 25573-11-9 25611-95-4

25714-24-3 25714-25-4, Ethanol, 2-[[2-

(dimethylamino)hexadecyl]oxy]-, N-oxide 25715-10-0 25715-11-1,

Ethanol, 2-[[2-(dimethylamino)tetradecyl]oxy]-, N-oxide 25715-54-2

RL: USES (Uses)

(for detergents)

L43 ANSWER 41 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN

1969:89063 Document No. 70:89063 Effect of structure on the

detergent properties and biodegradability of some alkyl

sulfates, alkylbenzenesulfonates, and alkanesulfonates. Crauland,

Marc; Courtier, Armand; Bolle, Jean (Pechiney-Saint-Gobain,

Saint-Gobain, Fr.). Chem. Phys. Appl. Surface Active Subst., Proc.

Int. Congr., 4th, Meeting Date 1964, Volume 1, 93-103. Editor(s):

Asinger, F. Gordon and Breach Sci. Publ.: London, Engl. (French)

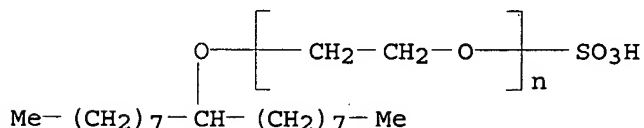
1967. CODEN: 20UGAG.

IT 31800-79-0

RL: USES (Uses)

(biodegradability of)

RN 31800-79-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(1-octylnonyl)oxy]-
, sodium salt (9CI) (CA INDEX NAME)

● Na

CC 46 (Surface Active Agents and Detergents)

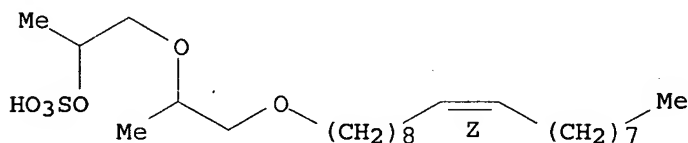
IT Molecular structure-property relationships
(biodegradability, of sulfonated detergents)

IT **Detergents**, properties
 (sulfonated, biodegradability of)
 IT 1120-04-3 22890-27-3 22890-28-4 25155-30-0 31800-77-8
 31800-79-0 36348-64-8
 RL: USES (Uses)
 (biodegradability of)

L43 ANSWER 42 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1967:508132 Document No. 67:108132 Ether alcohol sulfates from oleyl alcohol. Weil, James K.; Stirton, Alexander J.; Leardi, Eileen B. (Eastern Regional Res. Lab., Philadelphia, PA, USA). Journal of the American Oil Chemists' Society, 44(9), 522-4 (English) 1967. CODEN: JAOCA7. ISSN: 0003-021X.

IT **18366-24-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and **detergent** properties of)
 RN 18366-24-0 HCAPLUS
 CN 2-Propanol, 1-[1-methyl-2-(9-octadecenylloxy)ethoxy]-, hydrogen sulfate, (Z)- (8CI) (CA INDEX NAME)

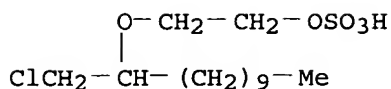
Double bond geometry as shown.



CC 23 (**Aliphatic** Compounds)
 ST ALKYLENE OXIDES OLEYL ALC; **DETERGENTS** OLEYL ETHER
 SULFATES; LIME SOAP DISPERSANTS; ETHER ALC
 SULFATES; SULFATES ETHER ALC; OLEYL ALC-ALKYLENE OXIDES; ETHYLENE
 OXIDE-OLEYL ALC; PROPYLENE OXIDE-OLEYL ALC; BUTYLENE OXIDE-OLEYL ALC
 IT **Detergents**, preparation
 (sulfated glycol ethers of elaidyl and oleyl alcs. as)
 IT 18316-16-0P 18316-17-1P 18316-19-3P 18316-20-6P
18366-24-0P 18366-26-2P 18366-27-3P 18366-30-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and **detergent** properties of)

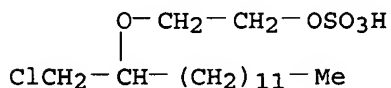
L43 ANSWER 43 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1967:453669 Document No. 67:53669 Ethers of vic-halohydrins. (Shell Internationale Research Maatschappij N. V.). Neth. Appl. NL 6506842 19661201, 11 pp. (Dutch). CODEN: NAXXAN. APPLICATION: NL 1965-6842 19650531.

IT **16499-82-4 16499-84-6 16499-86-8**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (mixture with isomer, as **foaming agent**)
 RN 16499-82-4 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)undecyl]oxy]-, hydrogen sulfate sodium salt (8CI) (CA INDEX NAME)



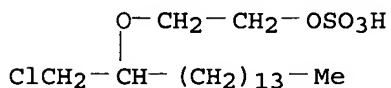
● Na

RN 16499-84-6 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)tridecyl]oxy]-, hydrogen sulfate sodium salt (8CI) (CA INDEX NAME)



● Na

RN 16499-86-8 HCAPLUS
 CN Ethanol, 2-[[1-(chloromethyl)pentadecyl]oxy]-, hydrogen sulfate sodium salt (8CI) (CA INDEX NAME)



● Na

IC C07C
 CC 23 (Aliphatic Compounds)
 ST CHLOROHYDRINS DODECENE SURFACTANTS; DODECENE CHLOROHYDRINS SURFACTANTS; SURFACTANTS CHLOROHYDRINS DODECENE
 IT **Foaming agents**
 (2-(chloroalkoxy)ethyl sodium sulfates as)
 IT 16499-82-4 16499-83-5 16499-84-6 16499-85-7
 16499-86-8 16499-87-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (mixture with isomer, as **foaming agent**)

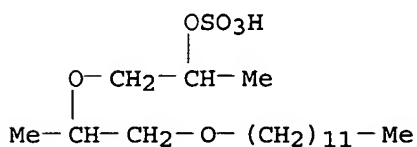
L43 ANSWER 44 OF 44 HCAPLUS COPYRIGHT 2005 ACS on STN
 1967:57023 Document No. 66:57023 Ether alcohol sulfates. Effect of oxypropylation and oxybutylation on surface-active properties. Weil, James K.; Stirton, Alexander J.; Nunez-Ponzoa, M. V. (Eastern Regional Res. Lab., Philadelphia, PA, USA). Journal of the American Oil Chemists' Society, 43(11), 603-6 (English) 1966. CODEN: JAOCA7. ISSN: 0003-021X.
 IT 14858-46-9, 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate sodium salt 14858-48-1, 2-Butanol, 1-[1-[(dodecyloxy)methyl]propoxy]-, hydrogen sulfate, sodium salt 14858-51-6, 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-

, hydrogen sulfate sodium salt 14858-57-2, 2-Propanol,
 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate sodium salt
 14858-59-4 14858-64-1 14858-66-3,
 2-Butanol, 1-[1-[(octadecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt 30862-56-7, 2-Butanol, 1-[1-
 [(tetradecyloxy)methyl]propoxy]-, hydrogen sulfate, sodium salt
 RL: USES (Uses)

(surface-active)

RN 14858-46-9 HCAPLUS

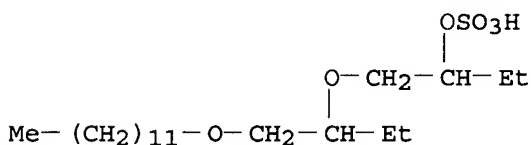
CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-48-1 HCAPLUS

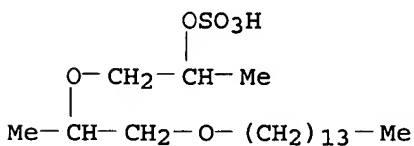
CN 2-Butanol, 1-[1-[(dodecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 14858-51-6 HCAPLUS

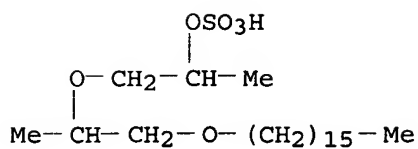
CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

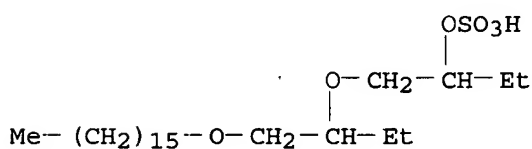
RN 14858-57-2 HCAPLUS

CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



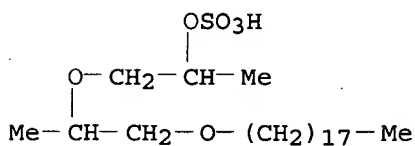
● Na

RN 14858-59-4 HCAPLUS
 CN 2-Butanol, 1-[1-[(hexadecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



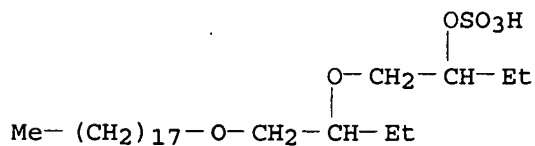
● Na

RN 14858-64-1 HCAPLUS
 CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



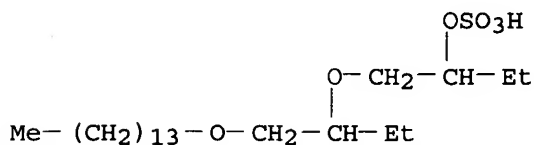
● Na

RN 14858-66-3 HCAPLUS
 CN 2-Butanol, 1-[1-[(octadecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 30862-56-7 HCAPLUS
 CN 2-Butanol, 1-[1-[(tetradecyloxy)methyl]propoxy]-, hydrogen sulfate,
 sodium salt (9CI) (CA INDEX NAME)



● Na

CC 46 (Surface Active Agents and Detergents)
 ST **SOAPS DISPERSING AGENTS; EPOXIDES DETERGENTS;**
DISPERSING AGENTS SOAPS; ETHER ALC SULFATES; ALC ETHER
SULFATES; SULFATES ETHER ALC; OXYPROPYLATION DETERGENTS
 IT **Surfactants, properties**
 (ether alc. sulfates as)
 IT 14858-45-8, 2-Propanol, 1-(dodecyloxy)-, hydrogen sulfate sodium
 salt 14858-46-9, 2-Propanol, 1-[2-(dodecyloxy)-1-
 methylethoxy]-, hydrogen sulfate sodium salt 14858-47-0,
 2-Butanol, 1-(dodecyloxy)-, hydrogen sulfate, sodium salt
 14858-48-1, 2-Butanol, 1-[1-[(dodecyloxy)methyl]propoxy]-,
 hydrogen sulfate, sodium salt 14858-50-5, 2-Propanol,
 1-(tetradecyloxy)-, hydrogen sulfate sodium salt 14858-51-6
 , 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen
 sulfate sodium salt 14858-52-7, 2-Butanol, 1-(tetradecyloxy)-,
 hydrogen sulfate, sodium salt 14858-54-9 14858-55-0, Ethanol,
 2-[2-(hexadecyloxy)ethoxy]-, hydrogen sulfate sodium salt
 14858-56-1 14858-57-2, 2-Propanol, 1-[2-(hexadecyloxy)-1-
 methylethoxy]-, hydrogen sulfate sodium salt 14858-58-3
 14858-59-4 14858-61-8 14858-62-9 14858-63-0,
 2-Propanol, 1-(octadecyloxy)-, hydrogen sulfate sodium salt
 14858-64-1 14858-65-2 14858-66-3, 2-Butanol,
 1-[1-[(octadecyloxy)methyl]propoxy]-, hydrogen sulfate, sodium salt
 30862-56-7, 2-Butanol, 1-[1-[(tetradecyloxy)methyl]propoxy]-,
 hydrogen sulfate, sodium salt
 RL: USES (Uses)
 (surface-active)

=>

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- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☒ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
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